UUU	UUU	EEEEEEEEEEEEEE	!!!!!!!!!!!!!!!!	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$	YYY YYY
UUU	UUU	EEEEEEEEEEEE	11111111111111111	РРГРРРРРРРР	SSSSSSSSSSSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	SSS	AAA AAA
UUU	UUU	EEE	111	PPP PPP	SSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	\$\$\$	YYY YYY
UUU	UUU	ĒĒĒ	ttt	PPP PPP	SSS	YYY YYY
UUU	UUU	ĒĒĒ	ŤŤŤ	PPP PPP	SSS	777 777
ŬŬŬ	ŬŬŬ	EEEEEEEEEE	ŤŤ	РРРРРРРРРРР	SSSSSSSS	YYY
UUU	ŬŬŬ	EEEEEEEEEEE	ŤŤŤ	PPPPPPPPPPP	SSSSSSSS	ŶŶŶ
UUU	UUU	EEEEEEEEEEE	ŤŤŤ	PPPPPPPPPPP	SSSSSSSS	ŶŶŶ
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
	UUUUUUUU	EEEEEEEEEEEEE	III	PPP	SSSSSSSSSSS	YYY
	UUUUUUU	EEEEEEEEEEEEE	III	PPP	22222222222	AAA
UUUUUUU	UUUUUUUU	EEEEEEEEEEEEE	111	PPP	SSSSSSSSSS	YYY

\$	AAAAAA AA AA AA AA AA AA AA AA AA AA AA AA AAAAAAAA	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	\$	\$	\$	000000 000000 00 00 00 00	
		\$					

SA'

Page

0

ENVIRONMENT: User mode image.

Needs CMKRNL privilege and dynamically acquires other

privileges, as needed.

AUTHOR: Larry D. Jones.

CREATION DATE: JULY, 1979

MODIFIED BY:

V03-004 KDM0002 Kathleen D. Morse Added \$PRDEF and \$SSDEF.

28-Jun-1982

SAT

SA

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 Page 3
DECLARATIONS 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1 (1)
```

SAT

```
.SBTTL DECLARATIONS
                                66666677777777777788888888889999999999
                                         MACRO LIBRARY CALLS
                                                    .LIBRARY /SYS$LIBRARY:STARLET.MLB/
                                                                                                                 attribute control block definitions channel control block definitions device characteristics definitions device definitions device information block definitions $GETDVI definitions file information block definitions process header offset definitions processor register definitions privilege definitions PSL definitions

O>> : UETP$ TEXT definition
                                                                                                                  attribute control block definitions
                                                     SCCBDEF
                                                     $DCDEF
                                                     SDEVDEF
                                                     $DIBDEF
                                                     STIBDEF
                                                     SPHDDEF
                                                     SPRDEF
                                                     SPRVDEF
                                                     $PSLDEF
                                                     $SHR MESSAGES UETP, 116, <<TEXT, INFO>> ; UETP$ TEXT definition 
$SFDEF ; stack frame definitions
                                                                                                                 system status code definitions
STS definitions
                                                     $SSDEF
                                                     $STSDEF
                                                                                                               : UETP message definitions
                                                    SUETPDEF
                                         Equated symbols
00000000
00000001
00000002
00000003
                                      WARNING
                                                                                                               ; warning severity value for msgs
                                      SUCCESS
                                                                   = 1
                                                                                                               : success
                                                                   = 2
                                      ERROR
                                                                                                                  error
                                                                                                                  information "
                                                                                                                                                     ..
                                                                                                                                                              ..
                                                                                                                                                                     ..
                                      INFO
00000004
                                                                   = 4
                                      SEVERE
                                                                                                                  fatal
                                     MFD_FILE_ID
00040004
                                                                   = <4016>+4
                                                                                                              : MFD ID
                                         MACROS
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:
DECLARATIONS 5-SEP-1984 04:
SATSSS01
V04-000
                                                             .PSECT RODATA, RD, NOWRT, NOEXE, LONG
                                                    fest_MOD_NAME: /SATSSSO1/
         31 30 53 53 53 54 41 53 00'
                                                                                                ; needed for SATSMS message
                                                103 TEST_MOD_NAME_D:
104 .ASCID /SATSSSO1/
53 53 53 54 41 53 00000011'010E0000'
                                                                                                : module name
                                                105 TEST_MOD_BEGIN:
106 .ASCIC /begun/
                                                                                                : start end and fail messages
                   6E 75 67 65 62 00°
                                                107 TEST_MOD_SUCC:
108 .ASCIC /successful/
   60 75 66 73 73 65 63 63 75 73 00'
                                                109 TEST_MOD_FAIL:
110 .ASCIC /failed/
                64 65 60 69 61 66 00'
                                                111 ASSIGN:
                                                                                                : system service names
                4E 47 49 53 53 41 00'
                                                             .ASCIC /ASSIGN/
                                                113 ALLOC:
                   43 4F 4C 4C 41 00°
                                                             .ASCIC /ALLOC/
                                                115 CANCEL:
                4C 45 43 4E 41 43 00'
                                                             .ASCIC /CANCEL/
                                                117 DASSGN:
118
                4E 47 53 53 41 44 00'
                                                             .ASCIC /DASSGN/
                                                119 DALLOC:
                43 4F 4C 4C 41 44 00'
                                                             .ASCIC /DALLOC/
                                                121 INPUT:
                   54 55 50 4E 49 00'
                                                             .ASCIC /INPUT/
                                                123 GETCHN:
                4E 48 43 54 45 47 00'
                                                             .ASCIC /GETCHN/
                                                125 GETDEV:
                56 45 44 54 45 47 00'
                                                             .ASCIC /GETDEV/
                                                127 OUTPUT:
                54 55 50 54 55 4F 00'
                                                             .ASCIC /OUTPUT/
                                                129 QIO:
130
                          4F 49 51 00°
                                                             .ASCIC /QIO/
                                                131 QIOW:
                       57 4F 49 51 00°
                                                             .ASCIC /QIOW/
                                                133 DCLCMH:
                48 4D 43 4C 43 44 00'
                                                              .ASCIC /DCLCMH/
                                                135 RENAST:
                                                              .ASCID /QIOTST.DAT:1
                                                                                                : returned name string
                                                137 DISK:
```

```
(SUCC S.C.) 16-SEP-1984 00
5-SEP-1984 04
SATSSS01
V04-000
49 44 24 53 59 53 0000009F 010E00000
                                                    138
                                                                   .ASCID /SYS$DISK/
                                                    139 CS1:
                                                                  .ASCID \Test !AC service name !AC step !UL failed.\
                                            OOBS
                                                    141 CS2:
          70
20
64
                                                                   .ASCID \Expected !AS = !XL received !AS = !XL\
                                                    143 CS3:
                     0000010E'010E0000
53 41 21 20 64 65
65 72 20 40 58 21
55 21 53 41 21 20
          704269
              78
55
65
20
                 45 21 63 42
                                                                   .ASCID \Expected !AS!UB = !XL received !AS!UB = !XL\
                                                    145 CS4:
                                                                   .ASCID \Required channel not received.\
                                                    147 CS5:
148
77 20 65 64 6F
                                                                   .ASCID \Mode was !AS.\
                                                     149 EXP:
73 75 74 61 74 73 0000017C'010E0000
                                                                   .ASCID \status\
                                                    151 IOEXP:
61 74 73 20 4F 49 0000018A 010E0000
                                                                   .ASCID \10 status\
                                                    153 ASTEXP:
61 70 20 54 53 41 0000019B'010E0000
2E 6D 61 72
                                                                   .ASCID \AST param.\
                                                    155 DISALL:
61 20 6B 73 69 64 000001AD 010E00000 2E 63 6F 6C 6C
                                                                   .ASCID \disk alloc.\
                                                    157 IOCC:
63 20 66 6F 20 23 000001C0 010E0000 73 27 6E 61 68
                                                                   .ASCID \# of chan's\
                                                    159 FILNOTMOD:
                                                                   .ASCID. \File characteristics not properly modified!\
                                                                                                        : mode messages
       72 65 73 75 00000206'010E0000'
                                                                   .ASCID \user\
   72 65 70 75 73 00000212'010E0000'
                                                                   .ASCID \super\
74 75 63 65 78 65 0000021F 010E0000 65 76 69
                                                                   .ASCID \executive\
                                                    167 KM:
168
169 MBA
170
171 EFCI
6C 65 6E 72 65 6B 00000230'010E0000'
                                                                   .ASCID \kernel\
                                                                                                        : mailbox name
                                                                   .ASCID \MBA\
          41 42 4D 0000023E 010E0000
                                                                                                        : common EFC name
```

SATSSS01 V04-000	- SATS SY DECLARATI	STEM SERVICE TESTS (SU	G 3 ICC S.C.) 16-SEP-1984 ( 5-SEP-1984 (	00:44:47 VAX/VMS Macro V04-00 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1	Page 6 (1)
45 24 50 54 45 55 00000	249'010E0000' 0241 46 024F 0250 0250 0250 0250 0250 0250	172 .ASCID  173 TEST_DATA: 174 A=0 175 .REPT 13 176 .BYTE A 177 A=A+1 178 .ENDR	\UETP\$EF\	; QIO test data	
	00000001 0204 0000118B' 0208	179 ARGLST: 180 .LONG 181 .ADDRESS 182 MSGVEC:	SUPER_MODE	; super mode setup arg list	
	00000003 0200 00741133 02E0 00000001 02E4 000002FF 02E8	182 MSGVEC: 183 .LONG 184 .LONG 185 .LONG 186 .ADDRESS	UETPS_TEXT	; PUTMSG message vector	

SAT

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro VO4-00 DECLARATIONS 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                       R/W PSECT
RWDATA, RD, WRT, NOEXE, LONG
                                                      TPID:
                              00000000
                                                                LONG
                                                                                                   : PID for this process
                                                     CURRENT_TC:
                              00000000
                                                                                                   : ptr to current test case
                                                                ALIGN LONG
                                                                                                   : put it on a long word boundry
                                                      REG_SAVE_AREA:
                              00000044
                                                                        15
                                                                                                   : register save area
                                                      MOD_MSG_CODE:
                              00748009
                                                                       UETPS_SATSMS
                                                                                                   ; test module message code for putmsg
                                                      TMN_ADDR:
                              00000000
                                                               .ADDRESS TEST_MOD_NAME
                                                      TMD_ADDR:
                              00000019
                                                               .ADDRESS TEST_MOD_BEGIN
                                                      PRVPRT:
                                     00
                                                               .BYTE
                                                                                                   ; protection return byte for SETPRT
                                                      PRIVMASK:
                    00000000 00000000
                                                                QUAD
                                                                                                   : priv. mask
                                                      CHM_CONT:
                              00000000
                                                               . LONG
                                                                                                   ; change mode continue address
                                                      RETADR:
                              00000065
                                                               .BLKL
                                                                                                   ; returned address's from SETPRT
                                                      STATUS:
                              00000000
                                                               .LONG
                                                      STAT:
                              00000071
                                                               .BLKL
                                                                                                   : 10 status blk's
                                                      STAT1:
                              00000079
                                                               .BLKL
                                                      ASGN:
                                                               $ASSIGN MBNAM, CHAN2, PSL$C_USER, 0; ASSIGN parameter list
                                                      ALLO:
                                                               $ALLOC MBNAM, ML, GETBUF, PSL$C_USER; ALLOC parameter list
                                                      CANC:
                                                               SCANCEL MBCHAN
                                                                                                   : CANCEL parameter list
                                                      DASS:
                                                               SDASSGN 0
                                                                                                   : DASSGN parameter list
                                                      DALL:
                                                               $DALLOC MBNAM, PSL$C_USER
                                                                                                   ; DALLOC parameter list
                                                      GETC:
                                                               SGETCHN O, PL, PB, SL, SB
                                                                                                   : GETCHN parameter list
                                                      GETD:
                                                               SGETDEV MBNAM, PL, PB, SL, SB
                                                                                                  : GETDEV parameter list
                                                      QIOP:
                                                                        31, CHAN1, IO$_READVBLK, STAT1, 0, 0, GETBUF+8, 80, 0, 0, 0, 0, 0; QIO parameter'
                                                               $010
                                                      QIOWP:
                                                               SQIOW
                                                                       31, MBCHAN, IO$_READVBLK, STAT1, 0, 0, GETBUF+8, 80, 0, 0, 0, 0, 0; QIOW param's
                                                      MODE:
                                                                                                   ; current mode string pointer
                              00000000
                                                               . LONG
                                                                       0
                                                      REG:
                           65'010E0000
52 20 72 65
74 73 69 67 65 72 00000165
                                                               .ASCID \register R\
                                                      REGNUM:
                                                               . LONG
                              00000000
                                                                                                   ; register number
                                                      MSGL:
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
SATSSS01
V04-000
                                                                                                            VAX/VMS Macro V04-00
                                                                                                            CUETPSY.SRC3SATSSS01.MAR; 1
                              00000050
0000017B'
                                                                . LONG
                                                                        80
                                                                                                    : buffer desc.
                                                                . ADDRESS BUF
                                          017B
                                                      BUF:
                              000001CB
                                                                .BLKB
                                                                        80
                              00000000
                                          01 CB
                                                                . LONG
                                                                                                    ; desc. for BUF_CHECK routine
                               000001DB'
                                                                ADDRESS GETBUF+8
                                                      GETBUF:
                              00000084
                                                                LONG
                                                                       132
                                                                                                    : same as above
                               000001DB
                                                                ADDRESS +4
BLKB 132
                                          0107
                               0000025F
                                                      CTRSTR:
                              00000084
00000267
000002E8
                                                                LONG
                                                                      132
                                                                                                    ; same as above
                                                                ADDRESS .+4
                                                                BLKB 132
                                                      ARGLST1:
                                                                                                    ; argument list for BUF_CHECK
                              00000236°
                                                  560
                                                                ADDRESS MBA
                                                  26
                                                                BLKL 4
                                                      MESSAGEL
                              00000000
                                                                LONG
                                                                                                    ; message desc.
                              0000017B1
                                                                 ADDRESS BUF
                                                      SERV_NAME:
                                                                . LONG
                              00000000
                                          0307
                                                                                                    ; service name pointer
                                          030B
                                                      PRVHND1:
                                                  268
269
270
                              00000000
                                          030B
                                                                . LONG
                                                                                                    ; previous handler address 1
                                          030F
                                                      MBNAM:
4D 24 50 54 45 55 00000317'010E0000'
                                          030F
                                                                .ASCID
                                                                       /UETP$MB/
                                                                                                    ; logical name for mailbox
                                          031D
                                                      MBCHAN:
                                   0000
                                          031E
                                                                . WORD
                                                                                                    ; mailbox channel number
                                                      CHAN1:
                                   0000
                                                                . WORD
                                                                                                    ; utility channel numbers
                                                      CHAN2:
                                   0000
                                                                WORD
                                                      CHAN_SAVE:
                                   0000
                                                                WORD
                                                                                                    ; channel count save location
                                                      MSGVEC1:
                                                                                                    : PUTMSG message vector
                              00000003
                                                                . LONG
                              00741133
                                                               . LONG
                                                                        UETP$_TEXT
                              00000001
                                                               . LONG
                              00000000
                                                                LONG
                                                      MB_DEV_CHAR:
                                                                        DEV$M_SHR!DEV$M_REC!DEV$M_AVL!DEV$M_IDV!DEV$M_ODV!DEV$M_MBX ; device class DI$_MBX ; device type
                              00150001
                                                                . LONG
                                                                .BYTE
                                                                BYTE
                                                  288
289
290
291
293
293
294
296
                                   0100
                                                                . WORD
                                                                                                      buffer size
                              00000000
                                                                . LONG
                                                                                                      device dependent info.
                              0024 0000
                                                                         0.36
                                                                WORD
                                                                                                      unit # & device name offset
                              00000000
                                                                . LONG
                                                                                                      PID
                                                                         *x10007
                               00010007
                                                                LONG
                                                                                                      owner UIC
                               00000000
                                                                LONG
                                                                                                      volume protection & error cnt
                               0000000
                                                                .LONG
                                                                                                      operation count
                               00000000
                                                                LONG
                                                                                                      volume name offset & record size
                              42 4D 00
                                                                . ASCIC
                                                                        /MBA/
                                                                                                     device name
                              00000028
                                                               MB_CHAR_SIZE=.-MB_DEV_CHAR
                                                  298 PL:
```

000004FB

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
 00000000
0000
0000
0000
                                            .PSECT SATSSSO1, RD, WRT, EXE, LONG .SBTTL SATSSSO1
                                FUNCTIONAL DESCRIPTION:
                                After performing some initial housekeeping, such as printing the module begin message and acquiring needed privileges, the system services are tested in each of their normal conditions. Detected failures are identified and an error message is printed on the terminal. Upon completion of the test a success or fail message is printed on the terminal.
                                 CALLING SEQUENCE:
                                           $ RUN SATSSSO1 ... (DCL COMMAND)
                                INPUT PARAMETERS:
                                           none
                                 IMPLICIT INPUTS:
                                           none
                                OUTPUT PARAMETERS:
                                           none
                                 IMPLICIT OUTPUTS:
                                            Messages to SYS$OUTPUT are the only output from SATSSSO1.
                                           They are of the form:
                                                          XUETP-S-SATSMS, TEST MODULE SATSSSO1 BEGUN ... (BEGIN MSG)
XUETP-S-SATSMS, TEST MODULE SATSSSO1 SUCCESSFUL ... (END MSG)
XUETP-E-SATSMS, TEST MODULE SATSSSO1 FAILED ... (END MSG)
XUETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
                                COMPLETION CODES:
                                           The SATSSSO1 routine terminates with a SEXIT to the
                                           operating system with a status code defined by UETPS_SATSMS.
                                SIDE EFFECTS:
                                            none
```

; let the test begin

TEST\_START SATSSSO1

SAT VO4

0004 'CF

01

DO

```
(SUCC S.C.) 16-SEP-1984 00:44:47
5-SEP-1984 04:29:37
                                      - SATS SYSTEM SERVICE TESTS SATSSSOT
                                                                                                                                          VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                          ENTRY SATSSSOI.O
                                     0000
                                        D4
DD
DF
                        0004°CF
                                                                                          PUSHL
                        0000
                                                                                          PUSHAL
                                                                                                      #2, G^SYS$WAKE
#0, G^SYS$HIBER
W^TEST_MOD_NAME_D
#1, G^SYS$SETPRN
          00000000 GF
                                       CALLS
          00000000 GF
                                                                                          CALLS
                        0009
                                                                                          PUSHAQ
          00000000 GF
                                                                                          CALLS
                                                                                                      W^MOD MSG PRINT
W^TEST MOD SUCC.W^TMD ADDR
WSUCCESS.WO.W3.W^MOD_MSG_CODE
                                                                                          BSBW
004C'CF 03
                        001F
                                                                                          MOVAL
                03
                        00
                                                                                          INSV
                                                                                          PUSHL
                1385 'CF
                                01
                                                                                          CALLS #1, WAREG_SAVE
                                                                STP0:
                                                                            $CMKRNL_S W^SETUP_SUPER.W^ARGLST; declare CHMS handler ADDL2 S^#EXESC_CMSTKSZ+16,SP; adjust the user stack MOVL SP,FP; fix the frame pointer
                                       CO
DO
FB
               SE
SD
1AF2'CF
                                                                                                                              ; adjust the user stack pointer ; fix the frame pointer
                                              390
391
                                                                                         #O.WAERLBUF DUMP
ASSIGN AND DASSGN TESTS
                                                                             CALLS
                                                                                                                                  dump any errors that occured at kernal mod
                                                                             SBITL
                                                                   $ASSIGN and $DASSGN tests
                                                                   ** NOTE **
                                                                   Because the only device that is reasonable to use for the ASSIGN/DASSGN tests is a mailbox, the MBXNAM parameter is not tested by this program. The only devices using this parameter are lineprinters, networks,
                                                                   and terminals and none of these things can be guaranteed available.
                                                                   test user mode
        0307'CF
0159'CF
                                       DE
                                                                                         W^ASSIGN, W^SERV_NAME
                                                                             MOVAL
                                                                                                                                            ; set service name
                                                                            MOVAL WOUM, WODE
SASSIGN S CHAN = WOMBCHAN, -
DEVNAM = WOMBNAM
                        OIFE 'CF
                                                                                                                                             : set mode
                                              0065
0076
007D
007F
                                                                                                                                               see if perm MBX left over
                                        D1
13
                                                                                         RO . #SS$_NOSUCHDEV
         00000908 8F
                                                                                                                                               is it here
br if not
                                                                            BEQL
                                                                            $DELMBX S CHAN = WAMBCHAN
$DASSGN_S CHAN = WAMBCHAN
                                                                                                                                              else get rid of it
drop the channel
                                              0088
                                              009
                                                               105:
                                                                                        #O, W^COUNT_CHAN
W^TOTAL_CHAN, W^CHAN_SAVE
#PSL$C_USER
#1, W^ASSDAS_CHK
#0, W^ERLBUF_DUMP
                                              0097
0096
00A3
00A5
00A6
                                        FB DD DB FB
                                                                             CALLS
                                                                                                                                               get enviromental channel count
        0324°CF
                                                                             MOVL
                                                                                                                                               save the environmental chan count
                                                                             PUSHL
                                                                                                                                               push the access mode
                1BEF 'CF
1AF2'CF
                                                          418
                                                                                                                                               do the assign/deassign tests
                                01
                                                                             CALLS
                                00
                                                                             CALLS
                                                                                                                                              dump any errors
                                                         420
421
422
423
424
425
                                              OOAF
                                              OOAF
                                                                   test super mode
                                              OOAF
                                                                            NEXT_TEST
                                               OOAF
                                                                STP1:
```

MOVL

#1.W^CURRENT\_TC

- SATS SYSTEM SERVICE TESTS ASSIGN AND DASSGN TESTS	(SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 5-SEP-1984 04:29:37 CUETPSY.SRCJSATSSS01.MAR;1	Page	12	
AB AADI				

1385°CF 01 0307°CF 0031°CF 0159°CF 020A°CF 01 1AF2°CF 00	DD 0084 FB 0086 DE 0088 DE 0002 BE 0009 FB 0008	426 MOVA 427 MOVA 428 CHMS 429 CALL	#1	<pre>; set service name ; set the mode ; do the super tests ; dump any errors</pre>
0004°CF 02 00 1385°CF 01 0159°CF 0217°CF 0307°CF 0031°CF	DE 00DC DE 00E3 00EA	432 test exec 433 434 - 435 NEXT STP2:	_TEST  MOVL #2,W^CURRENT_TC PUSHL #0 CALLS #1,W^REG_SAVE L W^EM,W^MODE	; set the mode ; set service name ; get thee to exec mode
000A 1BEF°CF 01 1AF2°CF 00	0000 00F9 DD 00FB FB 00FD 04 0102 0103	440 108: 441	D 0 L #PSL\$C_EXEC S #1,W^ASSDAS_CHK S #0,W^ERLBUF_DUMP	; push the access mode ; do the assign/dassgn tests ; return to user ; dump any errors
0004°CF 03 000 1385°CF 01 0307°CF 0031°CF 0307°CF 0031°CF 000A	0108 00 0108 0D 010D FB 010F 0E 0114 0E 0118 0E 0122 0129 31 0135 0138 0000 0138	STP3:  453 454 455 456 456 457 458 108: 459 460 PUSH CALL 462 463 464 208: CALL MOVA	L #PSL\$C_KERNEL	<pre>; set service name ; set the mode ; set service name ; skip the routine  ; push the access mode ; do the assign/dassgn tests</pre>
1AF2°CF 00 0159°CF 01FE°CF	04 0141 0142 FB 0142	463 464 208: 465 466 MOVA	S #0, W^ERLBUF DUMP L W^UM, W^MODE	<pre>; return to user mode ; report any errors ; reset the mode</pre>

Ā	SATS SYSTEMLLOC AND D	M SERVICE T ALLOC TESTS	ESTS (SUCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	VAX/VMS Macro VO4-00 Page 13 [UETPSY.SRC]SATSSSO1.MAR;1 (2)
	014F	472 :	.SBTTL ALLOC AND DALLOC TESTS  C and \$DALLOC tests  user mode	
0004°CF 04 00 1385°CF 01 0307°CF 0038°CF 0159°CF 01FE°CF	DO 014E DD 0153 FB 0155 DE 015A	STP4:	MOVL #4, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE MOVAL W^ALLOC, W^SERV_NAME MOVAL W^UM, W^MODE \$CREMBX_S CHAN = W^MBCHAN, - LOGNAM=W^MBNAM, -	; set service name ; set the mode
1B5C'CF 01 1AF2'CF 00	DE 0161 0168 0168 0168 017F DD 018B FB 018D FB 0197 0197 0197 0197 0197 0197 0197 0197	477 478 479 480 481 482 483 484 485 486 487 488 test	PRMFLG=#1  \$DASSGN_S CHAN=W^MBCHAN PUSHL #PSL\$C USER CALLS #1,W^ACLDAL CHK CALLS #0,W^ERLBUF_DUMP  super mode  NEXT_TEST	create an allocatable device make it allocatable push the mode check the services dump any errors
0004 CF 05 00 1385 CF 01 0307 CF 0038 CF 0159 CF 020A CF	0197 0197 DO 0197 DD 019C FB 019E	STP5:	MOVL #5, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE MOVAL W^ALLOC, W^SERV_NAME MOVAL W^SM, W^MODE CHMS #3	; set service name ; set the mode ; do the super mode tests
OA	0183 0183 00 0183 00 0188 FB 018A DE 018F DE 01C6		MOVL #6, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE MOVAL W^ALLOC, W^SERV_NAME MOVAL W^EM, W^MODE \$CMEXEC_S B^108 BRB 20\$	; set service name ; set the mode ; get to exec mode ; skip the routine
1B5C'CF 01	11 0109 0108 000 0108 00 0100 FB 010F 04 01E4	506 507 508 509	PUSHL #PSLSC_EXEC CALLS #1, W^ACLDAL_CHK RET	push the mode do the tests return to user mode

Page 14 (2)

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 ALLOC AND DALLOC TESTS S-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                                              510 20$:
511 :+
512 :
513 : test kernel mode
514 :
515 :-
516 NEXT_TEST
                                                                                                                   MOVAL WALLOC WASERV NAME

MOVAL WALLOC WASERV NAME

MOVAL WALLOC WASERV NAME

SCHKRNL S BA108

BRB 208
                                                                                                       STP7:
                                      0004 CF 07
00
1385 CF 01
CF 0038 CF
CF 0228 CF
                                                                      DO
DD
FB
DE
DE
                            0307'CF
0159'CF
                                                                                                                                                                                                               : set the service name
                                                                                                                                                                                                               ; set the mode
                                                                                                                                                                                                               get into kernel mode
skip the routine
                                                                                              519
520
521
10$:
522
523
524
525
526
20$:
528
528
529
530
                                                            OA
                                                                  0000
DD
FB
04
                                                                                                                        PUSHL
CALLS
RET
                                                            00
                                                                                                                                         #PSLSC_KERNEL
#1, W^AELDAL_CHK
                                                                                                                                                                                                              ; push the mode ; do the tests
                                       1B5C'CF
                                                                                                                                                                                                               return
                                                                                                                        $ASSIGN_S DEVNAM=W^MBNAM,-
CHAN =W^MBCHAN : get the device back
$DELMBX_S CHAN =W^MBCHAN : and get rid of it!
MOVCS #0,W^GETBUF,#0,#132,W^GETBUF+B : clean up the buffer
                                      01D3'CF 00
01DB'CF
      0084 8F
                            00
```

	- SATS SYS	TEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47	VAX/VMS Macro V04-00 Page 15 LUETPSY.SRCJSATSSS01.MAR;1 (2)
	0240 0240 0240	SBTTL CANCEL TESTS	
	0240 0240 0240	\$35	
	0240 0240	540 " NEXT_TEST	
0004°CF 08 00 1385°CF 01	DO 0240 DD 0245 FB 0247 DE 024C DE 0253	STP8:  MOVL #8,W^CURRENT_TC  PUSHL #0  CALLS #1 HAREG SAVE	
0307'CF 003E'CF 0159'CF 01FE'CF	DE 024C DE 0253 025A	PUSHL #0  CALLS #1, W^REG SAVE  541 MOVAL W^CANCEL, W^SERV_NAME  542 MOVAL W^UM, W^MODE  543 \$CREMBX_S CHAN = W^CHAN1, -  LOGNAM = W^MBNAM  545 MOVZUL W^CHAN1 W^OLOG* CHAN	; set service name ; set the mode
00F9'CF 0320'CF 0320'CF	3C 0271 3C 0278 027F 0288 0294	546 MOVZWL W^CHAN1, W^CANC+CANCELS_CHAN 547 \$QIO G W^QIOP	; make a MBX ; set the channel up ; in QIO and CANCEL ; do a read on the MBX ; cancel the IO ; check for success
138F'CF 01	DD 0294 FB 0296	PUSHL #SS\$ NORMAL CALLS #1.WRREG CHECK	
131B°CF 00	FB 0296 0298 FB 02A4 02A9 02A9 02A9 02A9 02A9 02A9 02A9 02A9	SSO SWAITFR'S EFN=#31 CALLS #0,W^CAN_CHECK 552 + 553 554 : test EF wait IO cancellation with _S form 555 - 556 - 557 NEXT TEST	; wait for IO completion ; check IO status block
	02A9 02A9	557 NEXT_TEST	
0004°CF 09 00 1385°CF 01	02A9 D0 02A9 DD 02AE FB 02B0 02B5 02BE	MOVL #9, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE  558 \$QIO_G W^QIOP  559 \$CANCEL_G W^CANC  560 FAIL_CHECK_SS\$_NORMAL	; do a read on the MBX ; try _G
138F°CF 01	DD 02C7 FB 02C9	560 FAIL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL	: check for success
138F°CF 01 131B°CF 00	FB 02C9 02CE FB 02D7 02DC	PUSHL #SS\$_NORMAL CALLS #1,WREG_CHECK 561 \$WAITFR_S EFN=#31 562 CALLS #0,W^CAN_CHECK 563;+	; wait for IO completion ; check the IO status block
	02CE FB 02D7 02DC 02DC 02DC 02DC 02DC 02DC	S61 SWAITFR S EFN=#31 562 CALLS #0,W^CAN_CHECK 563 + 564 test AST wait 10 cancellation with _S form 566 NEXT_TEST	
0004°CF 0A	0500	STP10: MOVL #10, W^CURRENT_TC	
0004°CF 0A 00 1385°CF 01 0105°CF 1309°CF	020C 00 020C 00 02E1 FB 02E3 DE 02E8	PUSHL #0  CALLS #1, WAREG SAVE  569 MOVAL WAIONC, WAGIOP+QIOS_ASTADR	; set AST address

SATSSS01 V04-000		- S/	ATS SYSTEM SERVE		VAX/VMS Macro V04-00 [UETPSY.SRC]SATSSS01.MAR;1	Page 16 (2)
	138F 'CF	01 DD 01 FB	02EF 570 02F8 571 0304 572 0304 0306 0306 0312 574 + 0312 575 0312 576 1 0312 577 0312 578 -	\$QIO G W^QIOP \$CANCEL S CHAN=W^CHAN1 FAIL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL CALLS #1, W*REG_CHECK \$HIBER_S est AST wait IO cancellation with _G form NEXT_TEST	; issue read on the MBX ; cancel it ; check success ; wait for AST	
		0B D0 00 DD 01 FB	0312 0312 0312 0317 0319 0316 0327 0330 582	MOVL #11,W^CURRENT_TC PUSHL #0 CALLS #1,W^REG_SAVE \$QIO_G W^QIOP \$CANCEL_G W^CANC FAIL_CHECK SS\$_NORMAL	; issue read to the MBX ; cancel it ; check for success	
OOFD'CF		01 DD 01 FB 01 DO 8F DO CF D4	0332 0337 583 033E 584 0343 585 034C 586 0350 587	PUSHL #SS% NORMAL CALLS #1, W*REG_CHECK SHIBER_S MOVL #1, W*QIOP+QIOS P2 MOVL #IOS READVBLK, Q*QIOP+QIOS_FUNC CLRL W*QIOP+QIOS_ASTADR SDASSGN_S CHAN = W*CHAN1	wait for AST reset QIO parameters drop the MBX	

04

SATSSS01 V04-000	- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 S-SEP-1984 04:29:37	VAX/VMS Macro V04-00 Page 18 LUETPSY.SRCJSATSSS01.MAR;1 (2)
138F°CF 01	0411 632 SGETCHN G W^GETC 041A 633 FAIL_CHECK SS\$_NORMAL	: try 6 form : check for success
1287'CF 01 56 036E'CF	DD 0421 634 PUSHL #0 FB 0423 635 CALLS #1, W^BUF CHECK DE 0428 636 MOVAL W^PB+8, R6 DD 042D 637 PUSHL #0	; push expected 10 status ; check the returned buffer ; check the primary buffer ; push expected 10 status
035E'CF 00 036E'CF 00	FB 042F 638 CALLS #1, W^BUF CHECK 2C 0434 639 MOVC5 #0, W^PB+8, #0, W^PL, W^PB+8	check the primary buffer push expected IO status for failures init the buffers
0362'CF 00 03EA'CF 00 03EA'CF	2C 0440 640 MOVC5 #0, W^SB+8, #0, W^SL, W^SB+8	

SA

ATSSS01 04-000			- SA	ATS SYS	TEM SERV	VICE TI	ests (s	UCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	VAX/VMS Macro V04-00 Page 19 LUETPSY.SRCJSATSSS01.MAR;1
				044C 044C 044C	643 644 644 646 647 648			GETDEV	
				044C 044C 044C 044C			NEXT_TE	ST	
		0004°CF 0E 00 1385°CF 01	DO	044C 044C 0451	ST	TP14:		MOVL #14,W^CURRENT_TC	
	030	1385'CF 01 7'CF 0060'CF 9'CF 01FE'CF	DO DD FB DE DE	0444CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	650 651 653 654 655 656		MOVAL MOVAL SGETDEV	MOVL #14,W^CURRENT_TC PUSHL #0 CALLS #1,W^REG_SAVE W^GETDEV,W^SERV_NAME W^UM,W^MODE S DEVNAM=W^MBNAM,- PRILEN=W^PL,- PRIBUF=W^PB,- SCOLEN=W^SL	; set service name ; set the mode
				0466 0481	656 657		FAIL_CH	SCDBUF=W^SB ECK SS\$_NORMAL	: try the S : check success
		138F'CF 01 00	FB FB	0481 0483	459			PUSHL #SS\$_NORMAL CALLS #1,W*REG_CHECK #0	
		1287'CF 01 56 03EA'CF 00	FB	048A 048F	659		CALLS	#1,WABUF_CHECK WASB+8,R8	; check the resulting buffer ; set buffer address
035E 'CF	00	1287°CF 01 036E°CF 00	DD FB DD FB DD FB 20	0494 0496 049B	658 659 660 661 662 663		PUSHL CALLS MOVAL PUSHL CALLS MOVCS	#0 #1,W^BUF_CHECK #0,W^PB+8,#0,W^PL,W^PB+8	push expected IO status check the resulting buffer set buffer address push expected IO status check secondary buffer init the buffers
0362°CF	00	036E'CF 03EA'CF 00 03EA'CF	50	04A4 04A7	664		MOVC5	#0,W^SB+8,#0,W^SL,W^SB+8	
		USEA CF		0481388AF46847033333333338AF88AF168D0448BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	665 ; 666 ; 668 ; 669 ; 670		G form		
				0483 0483 0483	670 :-		NEXT_TE	ST	
		0004°CF 0F	DO	04B3 04B3	ST	TP15:		MOVL #15,W^CURRENT_TC PUSHL #0	
		0004 ° CF 0F 00 00 1385 ° CF 01	DO DD FB	0488 048A 048F	671		\$GETDEV	PUSHL #0 CALLS #1, WAREG_SAVE _G WAGETD	· tev 6 form
		01	DD	04C8 04C8	671 672		FAIL_CH	PUSHL #SS\$_NORMAL	; try G form ; check for success
		138F'CF 01 00 1287'CF 01	DD FB DE DD FB	04CA 04CF	673		PUSHL	CALLS #1,W*REG_CHECK	; push expected 10 status
		1287'CF 01 56 036E'CF	DE	04D1	673 674 675 676 677		PUSHL CALLS MOVAL PUSHL CALLS	#0 #1,W^BUF_CHECK W^PB+8,R6 #0 #1,W^BUF_CHECK	check the returned buffer set the buffer address
		56 036E CF 00 1287 CF 01	fB	0400	677		CALLS	#1,W^BUF_CHECK	set the buffer address set expected IO status check the primary buffer

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 INPUT AND OUTPUT TESTS 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                                                        SBITL INPUT AND OUTPUT TESTS
                                                                                            SINPUT and SOUTPUT tests
                                                                                             try $OUTPUT with small transfer and a local EFN
                                                                                                        NEXT_TEST
                                                                                         STP16:
                                 0004 °CF
                                                             DO
DD
FB
DE
DE
                                                                                                                                     #16, W^CURRENT_TC
                                                                                                                      PUSHL #0

CALLS #1, W^REG SAVE

W^OUTPUT, W^SERV_NAME

W^UM, W^MODE

CHAN=W^MBCHAN, -

FUNC=#10$ READVBLK, -

P1 = W^GETBUF+8, -

P2 =#1
                                                    00
                        0307°CF
                                          0067'CF
                                                                                                                                                                                 ; set service name ; set the mode
                                                                                                        MOVAL
                                          OIFE'CF
                        0159'CF
                                                                                  689
690
691
693
694
695
696
698
                                                                                                        MOVAL
SQIO_S
                                                                                                                                                                                 ; let the output finish
                                                                                                       SOUTPUT CHAN=W^MBCHAN,-
LENGTH=#1,-
BUFFER=W^TEST_DATA,-
IOSB=W^STAT,-
                                                                                                     IOSB=W^STAT,-
EFN=#2

FAIL_CHECK SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECK

MOVAL W^GETBUF+8, R6

NOVAL W^TEST_DATA, R7

OVL #1, R8

TVL #1016!SS$_NORMAL, W^STAT1
SHL #1016!SS$_NORMAL
LS #1, W^BUF_CHECK
L W^GETBUF #8
                                                                                                                                                                                ; try output, small, & local EFN ; check for success
                                                             FB DE DO DO DO DO DO FB D4
                                                                                                                                                                                  set input address
set good data address
set the byte count
set dummy status
                                                                                 701
702
703
704
705
706
707
708
                0071 °CF
                                                   8F
8F
01
                                   00010001
                                   00010001
                                                                                                                                                                                   ; set expected IO status
                                                                                                                                                                                      check the results
                                           O1DB'CF
                                                                                                                                                                                   : init the buffer
                                                                                  709
710
711
712
                                                                                            test $INPUT with small transfer and local EFN
                                                                                                        NEXT_TEST
                                                                     0560
                                                                                         STP17:
                                                             DO
DD
FB
DE
                                 0004 'CF
                                                                                                                                     #17, W^CURRENT_TC
                                                    00
                                                                                                                       PUSHL
                                                                                                                      CALLS #1, WAREG SAVE
WAINPUT, WASERV NAME
CHAN=WAMBCHAN, -
FUNC=#10$ WRITEVBLK, -
P1 =WATEST_DATA, -
                                         0053 CF
                        0307'CF
                                                                                                        MOVAL
                                                                                                                                                                                  : set service name
                                                                                                        $010_5
                                                                                                                       P2 =#1
                                                                                                                                                                                  ; put data there to read
                                                                                                        SINPUT
                                                                                                                       CHAN=WAMBCHAN,-
                                                                                                                       LENGTH=#1 .-
BUFFER=W^GETBUF+8,-
                                                                                                       IOSB=W^STAT,-
EFN=#2
FAIL_CHECK SS$_NORMAL
                                                                                                                                                                                 ; try input, small, & local EFN
```

: check for success

```
(SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                          - SATS SYSTEM SERVICE TESTS INPUT AND OUTPUT TESTS
                                                                                                                                                                                                                                            21 (2)
                                                                                                      PUSHL #SS$ NORMAL CALLS #1, W*REG_CHECK PUSHL #1316!SS$ NORMAL CALLS #1, W*BUF CHECK CLRL W*GETBUF+8 MOVL #132,R8
                                138F 'CF 01
00010001 8F
1287 'CF 01
                                                            00
68
00
68
00
60
00
                                                                                724
725
726
727
728
729
730
731
732
                                                                                                                                                                                   set expected IO status check transfered data
                                  1287'CF 01
0108'CF
00000084 8F
                                                                                                                                                                                   init the buffer
                          58
                                                                                                                                                                                  set new byte count
                                                                    0500
                                                                    05D
                                                                                       : test $OUTPUT with large transfer and common EFN
                                                                    05DC
                                                                    05DC
                                                                    05DC
                                                                                                      NEXT_TEST
                                                                    OSDC
                                                                    05DC
                                                                                        STP18:
                                                   12
00
01
                                 0004 °CF
                                                                    05DC
                                                                                                                                    #18, W^CURRENT_TC
                                                                                                                     MOVL
                                                            DD
FB
DE
                                                                                                                     PUSHL
                                                                                                      MOVAL WOUTPUT, WESERV NAME
SASCEFC S #65, WEFCHAM
SQIO_S CHAN=WMBCHAN, -
                                 1385'CF
                       0307'CF 0067'CF
                                                                    05E8
                                                                                734
735
736
737
738
739
740
741
743
744
                                                                                                                                                                                ; set service name
                                                                    05EF
0604
                                                                                                                                                                                : make EFN 65
                                                                                                                     FUNC=#10$ READVBLK,-
P1 = W^GETBUF+8,-
P2 =#132
                                                                    0604
                                                                    0604
                                                                    0604
0627
0627
0627
                                                                                                                                                                               : let the $OUTPUT complete
                                                                                                      SOUTPUT CHAN=WAMBCHAN.-
                                                                                                                     LENGTH=#132,-
BUFFER=W^TEST_DATA,-
                                                                                                                     IOSB=W^STAT,-
                                                                                                                                                                               ; try output, large with common EFN
                                                                                                     FAIL_CHECK SS$ NORMAL

PUSHL #SS$ NORMAL

CALLS #1, W*REG_CHECK

MOVL #132a16!SS$ NORMAL, W*STAT1 ; set dummy status

PUSHL #132a16!SS$ NORMAL ; set expected IO s

CALLS #1, W*BUF_CHECK ; check the buffer

MOVC5 #0, W*GETBUF+8, #0, #132, W*GETBUF+8 ; init the buffer
                                                                                                                                                                                : check for success
                                                            FB
DO
DD
FB
20
                                 138F 'CF
00840001
                                                  8F
8F
01
                                                                                746
747
748
749
                0071 °CF
                                  00840001
1287'CF
                                                                    9662
8660
                                                                                                                                                                                set expected IO status
                                 01DB'CF 00
01DB'CF
                                                                    0660
                                                                    0676
                                                                                 750 :+
751 :
                                                                                           test $INPUT with large transfer and common EFN
                                                                                                      NEXT_TEST
                                                                    0679
                                                                                        STP19:
                                                   13
00
01
                                 0004°CF
                                                                                                                                    #19,W^CURRENT_TC
                                                            DD
F8
DE
                                                                                                                     PUSHL
                                                                                                                    CALLS #1, WAREG SAVE
WAINPUT, WASERV NAME
CHAN=WAMBCHAN, =
FUNC=#10$ WRITEVBLK, -
P1 = WATEST_DATA, -
P2 = #132
                       0307'CF 0053'CF
                                                                    0685
                                                                                                      MOVAL
                                                                                 756
757
758
759
761
762
763
764
765
                                                                                                                                                                               ; set service name
                                                                    0680
                                                                                                      $010 S
                                                                    068C
                                                                    0680
                                                                                                                                                                               ; put data out to read
                                                                                                                    CHAN=W^MBCHAN, -
LENGTH=#132,-
                                                                    06AF
                                                                                                      SINPUT
                                                                    06AF
                                                                                                                    BUFFER=WAGETBUF+8,-
10SB=WASTAT,-
EFN=#65
                                                                    06AF
                                                                                                                                                                               ; try input, large with common EFN
```

VO

SATSSS01 V04-000	- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 INPUT AND DUTPUT TESTS 5-SEP-1984 04:29:37	VAX/VMS Macro V04-00 Page 22 [UETPSY.SRC]SATSSS01.MAR;1 (2)
01	06D8 766 FAIL_CHECK SSS_NORMAL DD 06D8 PUSHL #SSS_NORMAL	; check for success
138F'CF 01 00840001 8F 1287'CF 01 0084 8F 00 01DB'CF 00 01DB'CF	06D8 766	; set expected IO status ; check transfered data +8 ; init the buffer

SAT

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 910 TESTS (SUCC S.C.) 16-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
                                                                     .SBTTL QIO TESTS
                                                           $910 tests
                                                           test local EFN = 3, IOS_WRITEVBLK, _S, 1 byte transfer
                       01
                               00
                                                                     MOVL NEXT_TEST
                                                                                                                                      : set byte count
                                                        STP20:
                               DO
DD
FB
DE
        0004 °CF
                                                                                               #20, W^CURRENT_TC
                                                                                  PUSHL
                                                                    PUSHL #0

CALLS #1, WAREG SAVE

MOVAL WAGIO, WASERV NAME

SQIO_S EFN =#3,-
CHAN=WABCHAN,-
FUNC=#10$ WRITEVBLK,-
10SB=WASTAT,-
P1 = WATEST_DATA,-
P2 =#1

FAIL_CHECK SS$ NORMAL
PUSHL #SS$ NORMAL
CALLS #1, WAREG_CHECK
       1385°CF 01
0307°CF
                                                                                                                                      ; set service name
                                                                                                                                      : try S local bc = 1 writevblk
: check success
       138F 'CF
                                                  789
790
791
792
793
794
                                                           test local EFN = 31, IO$_READVBLK, _G, 1 byte transfer
                                                                     NEXT_TEST
                                                        STP21:
       0004 ° CF
                               DO
DD
FB
D4
                                                                                               #21,W^CURRENT_TC
                                                                                  PUSHL
                                                                                  CALLS #1 WAREG SAVE
                                                                  CLRL WAGIUP SQIO G WAGIOP FAIL CHECK SS$ NORMAL PUSHL SS$ NORMAL CALLS #1, WAREG CHECK
               0105 CF
                                                                                                                                      ; disable AST's
; try G local bc = 1 readvblk
; check success
                               DD
        138F 'CF
                                                                     SWAITFR S EFN=#3
SWAITFR S EFN=#31
PUSHL #1016!SSS NORMAL
CALLS #1, W^BUF CHECK
CLRL W^GETBUF F8
                                                                                                                                         wait for the writevblk
                                                                                                                                       ; wait for the readublk
       00010001 8F
1287°CF 01
0108°CF
58 02
                               DD F8 04 00
                                                                                                                                       ; set expected 10 status
                                                                                                                                         check the results init the buffer
                                                                     MOVL
                                                                                  #2.R8
                                                                                                                                       ; set byte count
                                                           test common EFN = 65, 10$_READLBLK, _S, 2 byte transfer
                                                                     NEXT_TEST
                                                        STP22:
                                                                                               #22,W^CURRENT_TC
                                                                                  MOVL
        0004°CF
```

PUSHL

SATSSS01 V04-000

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 Q10 TESTS 5-SEP-1984 04:29:37
                                                                                                                    VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR:1
                                       894
895
896
                                             AST2:
                   001C
                                                          WORD ^M<R2,R3,R4>
                                                         NEXT_TEST
                                             STP27:
0004 CF
                      DODD FB DDD DF FB
                                                                                 #27, W^CURRENT_TC
                                                                     PUSHL
1385 CF
                                                                                 #1.WAREG_SAVE
          04
                                                                     4(AP).#2
                                                                                                                        right AST parameter?
br if yes
                                                         BEQL
                                                                     105
                                                         PUSHL
                                                                     4(AP)
                                                                                                                        push received
                                       900
901
                                                                     WASTEXP
                                                         PUSHL
                                                                                                                        push expected push string variable
                                                         PUSHAL
13D1 'CF
                                       902
903 10$:
                                                                     #3,W^PRINT_FAIL
                                                         CALLS
                                                                                                                      ; print the error
                            0912
0913
0913
0913
0913
0913
0913
                                       904
905 :+
906 :
907 : test
908 :-
909 :-
910 NEXT:
                                                         RET
                                                                                                                     : return
                                            test 10%_SETMODE, _S, READATTN
                                                         NEXT_TEST
                            0913
                                             STP28:
0004°CF
               10
00
01
                                                                                 #28, W^CURRENT_TC
                                                                     MOVL
                      DD
                             0918
                                                                     PUSHL
1385 'CF
                                                                                 #1, WAREG_SAVE
                             091/
                                                                     CALLS
                            091F
091F
091F
                                                                     CHAN=W^MBCHAN,-
                                                         $Q10_S
                                                                     FUNC=#10$_SETMODE!IO$M_READATTN,-
                                                                     EFN =#2,-
P1 =W^AS
                                                                          =W^ÁST3,-
                                                         P3 =#P$L$C USER
FAIL_CHECK SS$_NORMAL
                                                                                                                     : try S SETMODE : check success
                                                                     PUSHL #SS$ NORMAL CALLS #1, W*REG_CHECK
138F 'CF
                                                         SWAITFR S EFN=#2

CLRL W^QIOP+QIOS_ASTADR

CLRL W^QIOP+QIOS_ASTADR

SSETAST S ENBFLG=#0

SQIO G W^QIOP

FAIL_CHECK SSS_NORMAL

PUSHL #SSS_NORMAL
                                                                                                                      ; let it finish
; disable AST's for this one
       0105'CF
0109'CF
                                                                                                                        hold back on the reins
                                                                                                                     force the READATIN AST check success
                                                        SSETAST_S ENBFLG=#1

BRW NEXT1
               01
                      DD
FB
138F ° CF
                                                                                                                     ; let it fly
; skip over AST routine
                      31
            0045
                                               service READATTN AST
                                             AST3:
                   0000
                                                          . WORD
                                                         NEXT_TEST
                                             STP29:
```

					EM SE	RVICE TO	212	(30			1984 00:44:4 1984 04:29:3	7 6	AX/VMS Macro V04-00 UETPSY.SRCJSATSSS01.MAR; 1	Page	(2)
		00 00 01 04 04 04 06 03	D1	0981 0986 0988 0980 0991 0993 0996	935 937 938 939 941 943		CMPL BEQL PUSHL PUSHL		MOVL PUSHL CALLS 4(AP),#3 10\$ 4(AP)	#1.WARE	SAVE		correct AST? br if OK push receeived		
	13D1'CF	93°CF	DF FB	0990	939	100.	PUSHA	L	WASTEXP	NT_FAIL			<pre>push expected push the string variable print the failure</pre>		
	OOFD*CF	30		09A1 09A1 09A6 09AF	942 943 944	10\$:	MOVL SQIO_ FAIL_	G	WIOS WRI WOLOP CK SSS_N	TEVBLK,	^Q10P+Q10\$_F	UNC	; set the new mode ; and eat the read pending ; check success		
	138F'CF	01		09AF 09AF 09B1 09B6	945		SWAIT!		PUSHL CALLS S EFN=#9	#SS\$_NOF #1,W*REG 2	CHECK		; wait for it to digest.		
			04	09C3 09C4 09C4	946	**	RET						; carry on		
				0964 0964 0964 0964	945 946 947 948 950 951 953	test	0\$_\$E	TMO	DDEG.	WRTATTN					
				09C4			NEXT_	TES	51						
	0004°CF 1385°CF 0000017	1E 00 01 23 8F	DO DD FB DO	09C4 09C4 09C9 09CB 09D0		STP30:	MOVL		PHSHI	#0	RRENT_TC SAVE A_WRTATTN,-				
010D'	001 CF 0A: 0111'CF 0115'CF	FD'CF 3A'CF 04 03	DE	09CB 09D0 09D6 09D9 09E0 09E5 09EA	954 955 956 957 958 959 960		MOVAL MOVL MOVL		W^QIOP+Q W^AST4 W #4, W^QIO #P\$L\$C U W^QIOP CK \$S\$ N	^Q  OP+Q   P+Q  O\$  F  SER.W^Q	0\$_P1 2 0P+Q10\$_P3		; set new function ; set new P1 ; set new P2 ; set new P3 ; try G setmode ; check success		
	138F ° CF	01	DD FB	09F3 09F5			FAIL_	CHE	CK SSS_N PUSHL CALLS	IORMAL #SS\$ NOR #1,W*REG	MAL _CHECK				
0000 010D	OOFD'EF	30 50 ° CF	DO DE	09FA 0A07 0A10 0A17 0A1E 0A27 0A27	961 962 963 964 965 966		SSETA MOVL MOVAL SQIO_	FR ST	S EFN=#9 S ENBFLG #10\$ URI U-1EST D U-010P	j=#0 TEVBLK,G ATA,W^Q]	MAL CHECK IOP+QIOS FUN OP+QIOS_P1	IC	; wait for it to complete ; hold back on the reins ; set new function ; set new P1 ; kick off WRTATIN AST		
	138F ° CF	01	DD FB	0A27 0A29					CALLS	#1.WEREG			; check success		
		0040	31	OAZE OAZA	967 968 969	;+	SSETA: BRW	ST_	S ENBFLG	=#1			; let it fly ; skip AST routine		
				0A3A 0A3A 0A3A	970 971 972	servi	e WRT	ATT	IN AST						
			0000	0A3A 0A3A 0A3C	974 975 976	ÅST4:	.WORD	TES	0						

SA

VC

```
STP31:
    DO DD DD DD DF FB
                                                                MOVL
                                                                           #31,W^CURRENT_TC
                                                                          #1 , WAREG_SAVE
                                                                PUSHL
CALLS
4(AP),#4
                                                                                                           is it the right one?
br if it's OK
save received
                                                      CMPL
                                                      BEQL
                                                                 108
                                                                4 (AP)
                                                      PUSHL
                                                      PUSHL
                                                                                                           save expected
            0193 CF
                                                      PUSHAL
                                                                W^ASTEXP
                                                                                                           save string variable
      13D1'CF
                                                                #3.W^PRINT_FAIL
                                                      CALLS
                                                                                                           print the error
                                                      MOVL #10$ READVBLK, W^QIOP+QIO$_FUNC
MOVAL W^GETBUF+8, W^QIOP+QIO$_P1
$QIO_G W^QIOP
                                            105:
                         DO
010D CF 01D8 CF
                                                                                                           set new function code
                                                                                                           set new read address
                                                                                                           eat the write pending
                                                      FAIL CHECK SSS NORMAL
                                                                                                         : check for success
                              0A7
                         DD
FB
                                                                PUSHL #SS$ NORMAL CALLS #1, W*REG_CHECK
                  01
      138F 'CF
                                      988
989
990
991
992 test
993
994 This
995 allor
996
997
                                                      SWAITFR_S EFN=#92
                                                                                                           and wait for it to digest
                         04
                                                                                                         : bail out
                              0A86
0A86
0A86
                                              test IO$_SETCHAR, _S
                                              This function is not tested because of the lack of a device that is
                              0A86
                                               allocatable and char, setable on the minimum configuration.
                              0A86
                              0A86
                              0A86
```

SATSSS01 V04-000	- SATS SYSTEM SERVICE TEST	S (SUCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	VAX/VMS Macro V04-00 Page 29 CUETPSY.SRCJSATSSS01.MAR;1 (3)
	0A86 1000 + 0A86 1001   test 10\$ 0A86 1003   OA86 1004   OA86 1005   NE	_WRITEOF, _G	
0004°CF 20 00 1385°CF 01	0A86 0A86 DD 0A86 DD 0A8B FB 0A8D	MOVL #32,W^CURRENT_TC PUSHL #0 CALLS #1,W^REG_SAVE	
01	0A92 1008 0AAF 1009 FA DD 0AAF	IL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL	; issue the WRITEOF ; check success
138F'CF 01 00F9'CF 031E'CF 00FD'CF 31 010D'CF 01DB'CF 00000111'EF 02	DD	FUNC=#10\$_WRITEOF,- EFN =#10  IL_CHECK SS\$_NORMAL PUSHL #\$S\$_NORMAL CALLS #1,W*REG_CHECK  VZWL W^MBCHAN,W^QIOP+QIO\$_CHAN VL #10\$_READVBLK,W^QIOP+QIO\$_FUNC VAL W^GETBUF+8,W^QIOP+QIO\$_P1  VL #2,QIOP+QIO\$_P2  IO_G W^QIOP IL_CHECK SS\$_NORMAL PUSHL #\$S\$_NORMAL CALLS #1,W*REG_CHECK  AITFR_S EFN=#92 PL W^STAT1,#\$S\$_ENDOFFILE	; reset the channel ; set for the read ; set dummy address ; set any byte count ; issue a read ; check success
138F 'CF 01	0AD0 1014 \$Q 0AD9 1015 FA DD 0AD9 FB 0ADB 0AE0 1016 \$W	PUSHL #SS\$ NORMAL CALLS #1, WREG_CHECK AITFR_S EFN=#92	; wait for completion
00000870 8F 0071'CF 13 0071'CF 00000870 8F 0182'CF 13D1'CF 03	OAEO 1016 SW D1 OAED 1017 CM 13 OAF6 1018 BE DD OAF8 1019 PU DD OAFC 1020 PU DF 0802 1021 PU FB 0806 1022 CA 0808 1023 10\$: 0808 1024 + 0808 1025 test I0\$ 0808 1027 0808 1027 Start te 0808 1029 which ma 0808 1031 0808 1031 0808 1032 - 0808 1033 NE	PL WASTATI, WSSS_ENDOFFILE QL 10\$ SHL WASTATI SHL WSSS_ENDOFFILE SHAL WAIDEXP LLS #3, WAPRINT_FAIL	right status code? br if OK push received push expected push string variable print the failure
	0808 1024 + 0808 1025 : 0808 1026 : test 10\$	_ACCESS, _G	
	D1 OAED 1017 13 OAF6 1018 DD OAF8 1019 DD OAFC 1020 DF OB02 1021 FB OB06 1022 OB0B 1023 10\$: OB0B 1025 OB0B 1027 OB0B 1027 OB0B 1027 OB0B 1029 which ma OB0B 1031 OB0B 1031 OB0B 1032 OB0B 1033 OB0B 1033 OB0B 1033 OB0B 1033 OB0B 1035 OB0B 1035 OB0B 1035 OB0B 1035 OB0B 1037 OB28 1035 OB28 1037 OB28 1037 OB28 1038 B1 OB41 1039 CM B5 OB48 1041 TS	sting disk files. We first want to y be in a top level system directory her testing.  XT_TEST	find the FID of [SYSTEST].  y. Save that FID as the DID
0004°CF 21	0808 0808 STP33:	MOVL #33,W^CURRENT_TC	
0004°CF 21 00 1385°CF 01	DO 0808 DD 0810 FB 0812 0817 1034 \$A 0828 1035 \$T 0828 1036 0828 1037 0828 1038 B1 0841 1039 CM 13 0846 1040 BE B5 0848 1041 TS 13 084C 1042 BE	PUSHL #0 CALLS #1, WAREG_SAVE SSIGN_S WADISK, WACHAN1 RNLOG_S LOGNAM = WATOPSYS, - RSLLEN = WATOPSYS_DIR, - RSLBUF = WATOPSYS_DIR, -	assign the disk channel See if there is a top level system directory
50 0629 8F 72 04E4 CF 6C	B1 0841 1039 CM 13 0846 1040 BE B5 0848 1041 TS 13 084C 1042 BE	PW #SS\$_NOTRAN,RO QL 10\$ TW W^TOPSYS_DIR	défined system-wide If there's no translationor the trans is nullwe have no top level dirs

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 910 TESTS 5-SEP-1984 04:29:37
SATSSS01
V04-000
                                                                                                                                                    VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                                   #^M<R2,R3,R4,R5,R6>
w^TOPSYS DIR,R6
w^DOT DIR SEMI, w^DOT_DIR_SEMI+8,-
TOPSYS DIR+8(R6)
w^DOT DIR SEMI, w^TOPSYS_DIR
#^M<R2,R3,R4,R5,R6>
EFN=#16,-
CHAN=w^CHAN1,-
EUNC=#10$ ACCESS -
                                                   88
30
28
                                                                                        PUSHR
                                                                   1043
1044
1046
1046
1049
1053
1053
1055
1056
                                                                                                                                                         Save these over MOVC, etc.
                                                          04CC'CF
                                                                                       MOVZUL
MOVC3
                                                                                                                                                        Get top level dir name length; Form a file spec for...
                                                                                                                                                            ... the dir name...
                                                   AO
BA
                    O4E4 CF
                                                                                        ADDW2
                                                                                                                                                         Clean up after MOVC, etc.
                                                                                       POPR
                                                                                       SQIOW_S
                                                                                                                                                         Get the top level ...
                                                                                                                                                      : ...system directory fID
                                                                                                    FUNC=#10$ ACCESS,-
                                                                                                        =W^FIBDES
                                                                                                        =#TOPSYS_DIR,-
                                                                                                         =#ATR
                                                                                       FAIL_CHECK SSS_NORMAL
                                                                                                                                                     ; Check success of call...
                                                                                                    PUSHL #SS$ NORMAL
CALLS #1, W*REG CHECK
#SS$ NORMAL, W*STAT
                                                   FB 12 BB 28 C BA
                            138F'CF
0069'CF
                                            01
01
5E
30
00
30
                                                                   1057
1058
1059
                                                                                                                                                        ...and its results
BR if error occurred
                                                                                                    20$
                                                                                       BNEQ
                                                                                                   #^M<R2,R3,R4,R5>
#6,W^FIB+FIB$W_FID,W^FIB+FIB$W_DID; Get the new DID...
#0,#0,#0,#6,W^FIB+FIB$W_FID
#^M<R2,R3,R4,R5>
Restore after MOVC, et
                                                                                                                                                         Save these over MOVC, etc.
                                                                                        PUSHR
                                                                   1060
1061
1062
1063
1064
1065
            0470°CF
                                                                                        MOVC3
                           046A'CF
                                                                                                                                                        Restore after MOVC, etc.
046A CF
                       00
               06
                               00 8F
                                                                                        POPR
                                    O4AF 'CF
                    0493°CF
                                                   DE
                                                                                        MOVAL
                                                                                                    W^SYSTEST_DIR, W^ATR+4
                                                                                                                                                      : Point to SYSTEST dir name
                                                                                                    EFN=#16 -
CHAN=W^CHAN1
                                                                                        SQIO_S
                                                                   1066
1067
1068
1069
1070
1071
1072
                                                                                                    FUNC=#10$ ACCESS,-
10SB=W^STAT,-
                                                                                                    P1 =W^FIBDES .-
                                                                                                        =#SYSTEST_DIR.-
                                                                                                                                                      ; access file to get DID
                                                                                                        =#ATR
                                                                                       FAIL_CHECK SSS_NORMAL
                                                                                                                                                      ; check success
                                                                                                    PUSHL #SS$ NORMAL CALLS #1, W*REG_CHECK
                                                          OBEE
OBF 3
OBF C
                            138F 'CF
                                            01
                                                   FB
                                                                   1073
1074
1075
1076 20$:
1077
1078
1079
                                                                                       SWAITFR S EFN=#16
CMPL WASTAT, #SS$ NORMAL
BEQL 30$
                                                                                                                                                      ; wait for completion
                                                                                                                                                      check IO status
br if no error
                                    0069°CF
                                    0069'CF
                                                   DD
                                                                                        PUSHL
                                                                                                                                                         push recieved
                                                                                                   #SSS NORMAL
W^IOEXP
                                                          0007
0009
                                                                                        PUSHL
                                                                                                                                                         push expected
                                    0182'CF
                                                    DF
                                                                                                                                                         push string variable
                                                                                        PUSHAL
                                                         OCOD
                            13D1 'CF
                                            03
                                                                                                    #3,W^PRINT_FAIL
                                                   FB
                                                                    1080
                                                                                        CALLS
                                                                                                                                                      : print the failure
                                                                    1081
                                                                           305:
            0470 CF
                                                    28
                                                                    1082
                            046A'CF
                                                                                        MOVC3
                                                                                                    #6,W^FIB+FIB$W_FID,W^FIB+FIB$W_DID; get the new DID
                                            06
                                                                    1084
1085
                                                          OCTA
                                                          0C1A
0C1A
                                                                              test IO$_CREATE, _S
                                                                    1086
1087
                                                                           After ensuring that we have SYSPRV, set up access control and extension control. Set up a test file, superseding any old one which may be present.
                                                          OCTA
                                                                   1088
1089
1090
1091
                                                          OC1A
OC1A
                                                          OCTA
                                                                                       NEXT_TEST
                                                          OCTA
                                                          QC1A
                                                                           STP34:
                                                          OC1A
OC1F
                            0004 °CF
                                                   DO
                                                                                                    MOVL
                                                                                                                 #34,W^CURRENT_TC
                                                                                                    PUSHL
```

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SATSSS01 V04-000					- SA	TS SYSTE	M SERV	ICE TESTS	succ s.c.	) 16-SEP-1984 0 5-SEP-1984 0	0:44:47 4:29:37	AX/VMS Macro V04-00 Pag UETPSY.SRCJSATSSS01.MAR;1
		1385		01	FB	0C21 0C26 1	092	MODE	CALLS TO.108.	#1,WAREG_SAVE		; kernal mode to access PHD
	59	0000	00000 'CF	'9F	DE	0C43 1 0C4A 1 0C4F 1	093 094 095	MOVL MOVAL MODE PRIV	PHDSQ P FROM, TO	#1, WAREG SAVE KRNL, NOREGS L PHD, R9 RIVMSK(R9), WAPR \$ PRV	IVMASK	get process header address get priv mask address get back to user mode add SYSPRV priv.
04	66°CF	0000	046A 046E 00501	"CF	D4 B4 D0	0C4F 1 0C50 1 0C70 1 0C74 1 0C78 1	092 093 094 095 096 097 098	PRIV CLRL CLRW MOVL	ADD SYS W^FIB+F WFIB\$M	PRV IB\$W_FID IB\$W_FID RVN WRITE'FIB\$M NOR!	FAD!-	; add SYSPRV priv. ; clear out the FID
	0470		0085		В0	0081 1 0081 1	100	MOVW	FIBSM #FIBSM	NOURITE, W^FIB+F EXTEND! FIBSM AL	IBSL ACCTL	.; set new ACCTL
	047A	1385		8F 0F 00 01	80 00 00 FB	0094 1 0096 1 0098 1 0098 1 0098 1	100 101 102 103 104 105 106 107 108 109	MOVU MOVL PUSHL CALLS \$QIO_S	CHAN = FUNC = IOSB =	W^CHAN1 - #10\$ CRÉATE!10\$ W^STAT -		; clear out the FID  ; set new ACCTL  ; set new EXCTL  ; tl; on top of file if there ; set extend size to 15 ; push a dummy parameter ; save a register snapshot  OSM_ACCESS,-
		138F	'CF	01	DD F8	009B 10009B 100002 100002 100002	1112	FAIL_0	P1 = P2 = CHECK SS\$_ PUSHL CALLS	W^FIBDES,- #FILENAME		; create the file ; check for success
		0F	006D 006D 01A5	°CF OF °CF	D1 18 DD DD DF FB	0CC9 1 0CD2 1 0CD7 1 0CD9 1 0CDD 1	114 115 116 117 118 119 120 121 201	BGEQ PUSHL PUSHL PUSHAL CALLS	R_S EFN=# W^STAT+ 208 W^STAT+ #15 W^DISAL	4,#15 4		<pre>; wait until done ; was it extended? ; br if OK ; push received ; push expected ; push string variable ; print the failure</pre>
	1301	0069 0069 0182 CF	OF 'CF 01	D1 OCEB 1122 13 OCED 1123 DD OCEF 1124 DD OCF3 1125 DF OCF5 1126 FB OCF9 1127 OCFE 1128 OCFE 1129 OCFE 1130	122 123 124 125 126	CMPL BEQL PUSHL PUSHAL PUSHAL CALLS	25\$ W^STAT #SS\$ NO W^IOEXP	#SS\$_NORMAL  RMAL  INT_FAIL		check the IO status br if no errors push recieved push expected push string variable print the failure		
					OCFE 1	130 131 : 1	test 10%_MOD	OLFY, _S				
						OCFE 1 OCFE 1 OCFE 1 OCFE 1 OCFE 1	134 : 4	specify that mount equal the file.	our test to its o	file need not l riginal size.	be contigu Check that	ous and extend it by an we've successfully modified
						OCFE 1 OCFE OCFE		NEXT_1	EST			
		0004 1385 047C		23 00 01 04 • CF	DO DD FB AA D4	OCFE 0D03 0D05 0D0A 1	139 140	BICW2	MOVL PUSHL CALLS #FIBSM W^FIB+F	#35,W^CURRENT_ #0 #1,W^REG_SAVE FILCON,W^FIB+FII 18\$L_EXVBN		; remove contiguous mark ; allow the modify to work

V04-000		410	0D13 1141 0D13 1142	STS (SUCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37 \$QIO_S EFN=#7 CHAN=W*CHAN1 FUNC=#IOS MODIFY	VAX/VMS Macro V04-00 Page 32 [UETPSY.SRC]SATSSS01.MAR;1 (3)
	138F'CF 01	DD	0D13 1142 0D13 1143 0D13 1144 0D13 1145 0D13 1146 0D38 1147 0D38	\$QIO_S EFN=#7,- CHAN=W^CHAN1,- FUNC=#IO\$_MODIFY,- IOSB=W^STAT,- P1 =W^FIBDES,- P2 =#FILENAMÉ FAIL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL	; try to truncate with IOS_MODIFY
	138F'CF 01 01 0069'CF 0069'CF 01 0182'CF 13D1'CF 03	DD F B DD DF F B	OD13 1143 OD13 1144 OD13 1145 OD13 1146 OD38 1147 OD38 OD3A OD3F 1148 OD4B 1149 OD4D 1150 OD4F 1151 OD53 1152 OD55 1153 OD59 1154	PUSHL #SS\$ NORMAL CALLS #1, WREG_CHECK SWAITFR_S EFN=#7 CMPL WSTAT, #SS\$_NORMAL BEQL 10\$ PUSHL WSTAT PUSHL #SS\$_NORMAL PUSHAL WSS\$_NORMAL PUSHAL WSS\$_NORMAL PUSHAL WSS\$_NORMAL	<pre>; wait for completion ; check IO status ; br if no error ; push recieved ; push expected ; push string variable ; print the failure</pre>
	047C'CF 04	AB	OD59 1154 OD5E 1155 10\$: OD5E 1156 OD63 1157 OD63 1158 OD63 1159 OD63 1160 OD63 1161 OD63 1162 OD88 1163 OD88 OD88	BISW2 #FIB\$M_FILCON, W^FIB+FIB\$W_EXCT \$QIO_S EFN=#5 CHAN=W^CHAN1 FUNC=#IO\$_ACCESS	L; set a value to be over written
	138F'CF 01	DD fB	OD63 1162 OD88 1163 OD88 OD8A OD8F 1164	P1 =W^FIBDÉS P2 =#FILENAMÉ FAIL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL CALLS #1,W*REG_CHECK \$WAITER S_EEN=#5	; check for success
	09 047C'CF 04 01:8'CF 13D1'CF 01	E1 DF FB	OD98 1165 OD9E 1166 ODA2 1167 ODA7 1168 20\$: ODA7 1169 :4	SWAITFR S EFN=#5 BBC  #FIB\$M FILCON, W^FIB+FIB\$W_EXCT PUSHAL W^FILNOTMOD CALLS #1, W^PRINT_FAIL	L,20\$; if cleared then OK; push string variable; print the failure
			ODA7 1169 4 ODA7 1170 : ODA7 1171 : Check ODA7 1172 : ODA7 1173 :- ODA7 1174	that we may read and write the file wi	th IOS_WRITEVBLK & IOS_READVBLK.
	0004°CF 24 00 1385°CF 01 0069°CF 0071°CF	DO DD FB D4	ODA7 ODA7 STP36: ODA7 ODAC ODAE ODB3 1175 ODB7 1176	MOVL #36, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE CLRL W^STAT CLRL W^STAT1 \$9.0 CHAN=W^CHAN1, - FUNC=#10\$ WRITEVBLK, -	; clean the 10 status blk
	138F°CF 01	DD FB	ODBB 1177 ODBB 1178 ODBB 1179 ODBB 1180 ODBB 1181 ODBB 1182 ODBB 1183 ODE2 1184 ODE2 ODE4 ODE9 1185 ODF2 1186	IOSB=W^STAT,- P1 =W^TEST_DATA,- P2 =#132,- P3 =#1  FAIL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL CALLS #1,W*REG_CHECK \$WAITFR_S EFN=#9 \$QIO_S EFN =#10,-	<pre>: write 132 bytes to VBN 1 : check success : wait here til done</pre>

SATSSS01 V04-000			- SA	TS SYSTEM SERVI	ICE TESTS (SI	H 5 UCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	VAX/VMS Macro V04-00 Page 3: CUETPSY.SRC]SATSSS01.MAR;1
	58	138F 'CF 01 56 01DB 'CF 57 0250 'CF 00000084 8F 00840001 8F 11CB 'CF 01	DD	0E45 1203 :- 0E45 1205 :- 0E45 0E45	FAIL_CHE SWAITFR MOVAL MOVAL MOVL PUSHL CALLS  TEST IOS_DEACE NEXT_TES	CHAN=W^CHAN1,- FUNC=#IO\$ READVBLK,- IOSB=W^STAT1,- P1 =W^GETBUF+8,- P2 =#132,- P3 =#1 ECK SS\$ NORMAL PUSHL #SS\$ NORMAL CALLS #1,W*REG_CHECK S EFN=#10 W^GETBUF+8,R6 W^TEST DATA,R7 #132,R8 #132016!SS\$ NORMAL #1,W^DISK_BUF_CHECK CESS,_S	read 132 bytes from VBN 1; check success:  wait here til done; set buffer address; set good data address; set byte count; push expected status return; check the transfer
18 00	00	0004 ° CF 25 00 1385 ° CF 01 0069 ° CF 0071 ° CF 01D3 ° CF 00 0476 ° CF	DO DD FB D4 D4 20	0E45 0E4A 0E4C 0E51 1206 0E55 1207 0E59 1208	CLRL CLRL MOVC5	MOVL #37, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE W^STAT W^STAT1 #0, W^GETBUF, #0, #FIB\$L_LOC_ADD	; clear 10 status blks
	1385°CF 01	DD FB	0E60 0E63 1209 0E63 1210 0E65 1211 0E6A 1212 0E6A 1213 0E6A 1214 0E6A 1215 0E6A 1216 0E6A 1217 0E6A 1217	PUSHL CALLS \$QIO_S	-FIBSL_WCC,W^FIB+FIBSL_WCC #1,W^REG_SAVE EFN =#5,= CHAN=W^CHAN1,- FUNC=#IO\$ DEACCESS,- IOSB=W^STAT1,- P5 =#ATR,- P1 =W^FIBDES	clear unneeded stuff in FIB push a dummy parameter save a snapshot of regs	
		138F 'CF 01	DD FB	0E91 1218 0E91	FAIL_CH	ECK SS\$ NORMAL PUSHL #SS\$ NORMAL CALLS #1, W*REG_CHECK	; try S deaccess ; check success
		0071 °CF 01 0071 °CF 0071 °CF 01 0182 °CF 13D1 °CF 03	D1 13 DD	0E6A 1213 0E6A 1214 0E6A 1215 0E6A 1215 0E6A 1217 0E91 1218 0E91 1218 0E91 1220 0EA6 1221 0EA6 1222 0EA6 1223 0EA6 1223 0EA6 1223 0EA7 1226 101 0EB7 1228 0EB7 1228 0EB7 1228 0EB7 1231 0EB7 1232	CMPL BEQL PUSHL PUSHL PUSHAL CALLS	S EFN=#5 #SSS_NORMAL, W^STAT1 10\$ W^STAT1 #SSS_NORMAL W^10EXP #3, W^PRINT_FAIL	wait for completion check IO status br if OK push recieved push expected push string variable print the failure
				0EB7 1227 • 0EB7 1228 • 0EB7 1229 • 0EB7 1230 • 0EB7	test 10%_DELE	TES	
				0EB7 1231 :- 0EB7 1232 0EB7	NEXT_TE	ST	

SATSSS01 V04-000

- SATS SYSTEM SERVICE TESTS Q10 TESTS	(succ s.c.)	16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	VAX/VMS Macro V04-00 [UETPSY.SRC]SATSSS01.MAR;1	Page	34 (3)	
---------------------------------------	-------------	---	--	------	-----------	--

0004 1385		26 00 01 °CF	00 00 FB 04	OEB7 OEBC OEC7 OEC7 OEC7	1233 1234 1235 1236 1237	TP38: CLR \$Q1	o_s	MOVL #38, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE W^STAT EFN =#11,- CHAN=W^CHAN1,- FUNC=#10\$ DELETE!10\$M_DELETE,- 10\$B=W^STAT,-		init 10 status
138F	'CF	01	DD FB	OEC7 OEEE OEEE OEFO	1238			P1 = W^FIBDES, - P2 = #FILENAME CK SS\$_NORMAL PUSHL  #SS\$_NORMAL CALLS  #1, W*REG_CHECK S EFN=#11	•	delete the file check for success
0069	0069	01 'CF	01 13 00 06 60	OEF5 OEFE OF03 OF05 OF09 OFOB	1241 1242 1243 1244 1245 1246	BEQ PUS PUS PUS	L HL HL HAL	#SSB_NORMAL, W-STAT 108 W-STAT #SSB_NORMAL W-10EXP		wait for completion check IO status br if OK push recieved push expected push string variable
1301	'CF	03	FB	OF OF 14 OF 14	1247 1248 1 1249	OS:		F3,W^PRINT_FAIL S CHAN=W^CHAN1		print the failure deassign the disk

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 GIOW TESTS S-SEP-1984 04:29:37
SATSSS01
V04-000
                                                                                                                                                                                                           YAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                                                         .SBTTL QIOW TESTS
                                                                                            1254
1255
1256
1257
1258
1260
1261
1262
1263
                                                                                                           SQIOW tests
                                                                                                          The $910 tests check most of the functionality of the 910 services. The purpose of these tests is to check the differences between $910 and $910W.
                                                                                                           test _S and local EFN
                                                                                                                        NEXT_TEST
                                                                                                       STP39:
                                                            27
00
01
                                                                      DO
DD
FB
DE
                                      0004 °CF
                                                                                                                                         MOVL
                                                                                                                                                          #39, W^CURRENT_TC
                                                                                                                                         PUSHL
                                                                                                                                                          #1 .WAREG_SAVE
                                      1385°CF
                                                                                                                                         CALLS
                                                                                                                       MOVAL WAGIOW, WASERV NAME

$QIO_S CHAN=WAMBCHAN, -
FUNC=#IO$ READVBLK, -
P1 = WAGETBUF+8, -
P2 =#80
                                                 0072'CF
                            0307'CF
                                                                                            1264
1265
1266
1267
1268
1269
1270
1271
1273
1274
1275
                                                                                                                                                                                                              ; set service name
                                                                                                                                                                                                             ; set up the mailbox
                                                                                                                        SQIOW_S EFN =#16
                                                                                                                      $QIOW_S EFN =#16.-
CHAN=W^MBCHAN.-
FUNC=#IO$ WRITEVBLK.-
IOSB=W^STAT.-
P1 =W^TEST_DATA.-
P2 =#80

FAIL_CHECK SS$ NORMAL
PUSHL #SS$ NORMAL
CALLS #1, W*REG_CHECK

MOVAL W^GETBUF+8,R6
MOVAL W^TEST_DATA.R7
MOVL #80@16!SS$ NORMAL, W^STAT1
PUSHL #80@16!SS$ NORMAL
CALLS #1, W*BUF CHECK
MOVCS #0, W*GETBUF+8
                                                                                                                                                                                                              : try S with local EFN : check for success
                                                                      DB DE DO DD DB C
                                        010B
00000050
0000001
00500001
                                                                                            1276
1277
1278
1279
1280
1281
1282
                                                                                                                                                                                                                 set buffer address
                                                                                                                                                                                                                 set good data address
set the byte count
                  0071°CF
                                                                                                                                                                                                                 set dummy status
set expected IO status
check the data
                                                           01
      0050 8F
                                      O1DB'CF
                           00
                                                                                                                                                                                                                 init the buffer
                                                 01DB'CF
                                                                                            1283
1284
1285
1286
1287
1288
                                                                                                           test _G with local EFN
                                                                                                                        NEXT_TEST
                                                                                                       STP40:
                                      0004 ° CF
                                                                      DO DD FB DO
                                                            28
00
01
                                                                                                                                                          #40,W^CURRENT_TC
                                                                                                                                         MOVL
                                                                                                                                        PUSHL #0

CALLS #1, W^REG_SAVE

W^MBCHAN, W^QIOWP*QIOWS_CHAN

CHAN=W^MBCHAN, -

FUNC=#IO$ WRITEVBLK, -

P1 =W^TEST_DATA, -

P2 =#80
                                                                               OFBA
OFBF
OFC6
                            012D'CF
                                                 031E 'CF
                                                                                                                                                                                                              ; set the channel number
                                                                                                                                                                                                             : set up the mailbox : try _G with local EFN
                                                                                                                        SQION_G WAQIONP
```

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
SATSSS01
V04-000
                                                                                                                                                                                                                                           VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                                                                          FAIL_CHECK SSS_NORMAL
PUSHL #SSS_NORMAL
CALLS #1, W*REG_CHECK
PUSHL #80016!SSS_NORMAE
CALLS #1, W*BUF_CRECK
MOVCS #0, W*GETBUF+8, #0, #80, W*GETBUF+8
                                                                                                           1295
                                                                                                                                                                                                                                              : check for success
                                             138F°CF 01
00500001 8F
1287°CF 01
                                                                                  FB
DD
FB
20
                                                                                                           1296
1297
1298
                                                                                                                                                                                                                                                  set expected IO status
                                                                                                                                                                                                                                                   check the data
       0050 BF
                                00
                                            O1DB'
                                                                                             100
                                                                                                                                                                                                                                                  init the buffer
                                                          O1DB'
                                                                                             1000
                                                                                                           1299
1300
1301
1302
1303
1304
                                                                                                                            test _S with common EFN
                                                                                                                                           NEXT_TEST
                                                                                             1010
                                                                                             1010
                                                                                                                       STP41:
                                                                     29
00
01
                                            0004 °CF
                                                                                            1010
                                                                                                                                                                                   #41, W^CURRENT_TC
                                                                                                                                                               MOVL
                                                                                 DD
                                                                                                                                                              PUSHL
                                                                                                                                                                                  #1.WAREG_SAVE
                                            1385 CF
                                                                                                                                                               CALLS
                                                                                                                                                              CHAN=W^MBCHAN, -
FUNC=#10$ WRITEVBLK, -
P1 =W^TEST_DATA, -
P2 =#80
                                                                                             101C
                                                                                                                                           $010 S
                                                                                                           1306
1307
1308
1309
1310
                                                                                            101C
101C
101C
                                                                                                                                         P2 =#80
$QIOW_S (HAN=W^MBCHAN, -
EFN =#65 -
FUNC=#IO$ READVBLK, -
P1 =W^GETBUF+8, -
P2 =#80

FAIL_CHECK SS$ NORMAL
PUSHL #SS$ NORMAL
CALLS #1, W*REG CHECK

PUSHL #80@16!SS$ NORMAE
CALLS #1, W*BUF CHECK

PUSHL #80@16!SS$ NORMAE
CALLS #1, W*BUF CHECK

MOVCS #0, W*GETBUF+8, #0, #80, W*GETBUF+8; init the buffer
                                                                                                                                                                                                                                              : set up mailbox
                                                                                             103F
                                                                                             103F
                                                                                             103F
                                                                                                          1312
1313
1314
                                                                                             103F
                                                                                             103F
                                                                                                                                                                                                                                              ; try S with common EFC ; check for success
                                                                                             1066
                                                                                 DD
FB
DD
FB
20
                                                                                             1066
                                             138F 'CF
                                                                                             1068
                                             00500001 8F
1287 CF 01
                                                                                            106D
1073
1078
                                                                                                                                                                                                                                                  set expected 10 status
                                                                     01
       0050 BF
                                            O1DB'CF
                                00
                                                        O1DB'CF
                                                                                             108
                                                                                                           1318
1319
                                                                                                          1320 test _G with common EFC
1321
1322 -
1323 NEXT_TEST
                                                                                             1084
                                                                                             1084
                                                                                             1084
                                                                                                                                           NEXT_TEST
                                                                                             1084
                                                                                             1084
                                                                                                                       STP42:
                                            0004 ° CF
                                                                                             1084
                                                                                 DO DO DE
                                                                                                                                                               MOVL
                                                                                                                                                                                  #42, W^CURRENT_TC
                                                                                                                                         PUSHL #0

CALLS #1, W*REG SAVE

MOVL #65, W*QIOWP+QIOWS EFN

MOVL #10$ WRITEVBLK, W*QIOWP+QIOWS FUNC; set function

MOVAL W*TEST DATA, W*QIOWP+QIOWS P1; set new P1 para

$QIO_S CHAN=W*MBCHAN, -

FUNC=#10$ READVBLK, -

P1 = W*GETBUF+8, -

P2 = #80

$QIOW G W*QIOWP

FAIL CHECK $S$ NORMAL

PUSHL #SS$ NORMAL

CALLS #1, W*REG CHECK

PUSHL #80@16!$S$_NORMAL

Set expected 10
                                                                                                                                                              PUSHL
                                                                                             1088
1090
1099
109E
                                              00000041 8F
                      0129°CF
                                            0131 CF
                                0141 CF
                                                        0250'CF
                                                                                                                                                                                                                                             : set new P1 parameter
                                                                                                                                                                                                                                             : set up mailbox
: try G with common EFN
: check for success
                                                                                             100
                                                                                             IOD
                                                                                             1001
1003
```

; set expected 10 status

138F 'CF

00500001 8F

DD

10D8

1333

VO

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 ROUTINES 5-SEP-1984 04:29:37

.SBITL ROUTINES .SBITL SETUP\_SUPER ROUTINE

Routine to declare an initial CHMS handler from user mode.

FUNCTIONAL DESCRIPTION:

CALLING SEQUENCE:

SCHKRNL\_S WASETUP\_SUPER, ARGLST

ARGLST = address of a pointer to a one parameter argument list conta the address of the entry mask of the CHMS handler

INPUT PARAMETERS:

ARGLST

IMPLICIT INPUTS

NONE

**OUTPUT PARAMETERS:** 

Declares a change mode handler for super mode which must be reset to DCL in the users handler routine when the handler is no longer needed.

IMPLICIT OUTPUTS:

NONE

COMPLETION CODES:

NONE

SIDE EFFECTS:

NONE

ON ENTRY:

00 USP => AP PCOAP SRVEXIT PSL

KSP =>

USER

CALL

FRAME

SA

SAT

```
1407
1408
1409
                                                             RETURN_PC:
                  00000000
                                                                               LONG
                                                                                                                                              : storage for user return PC
                                                             HANDLER_PC:
                                                   1410
                  00000000
                                                                             . LONG
                                                                                                                                              : storage for handler PC
                                                 1413
                                                            SETUP_SUPER:
                          000C
DB
D0
D0
D0
C0
9E
                                      1137
1139
1136
1146
1146
1140
1153
1158
1158
1161
1163
1164
117A
                                                                              - WORD
                                                                                             ^M<R2,R3>
                                                                                            #PR$ USP,R3

SF$L SAVE PC(R3),B^RETURN PC; get the user return PC

4(AP),HANDLER PC; save the handler address

SF$L SAVE FP(FP),R2; get saved FP

S^#EXESC EMSTKSZ,R2; back over change mode stack from B^20$,(RZ)

**CPSI SC SUPERBREISS CURMONARY RC SUPERBREISS
          53
                    03
AC
AD
04
04
01
                                                                             MFPR
              10
04
00
                                                                             MOVL
                                                  1416
1417
1418
1420
1421
1423
1424
1427
1428
1429
1431
                                                                             MOVL
                                                                             MOVL
                                                                                                                                                 get saved fP
back over change mode stack frame
        52<sub>58</sub>"
                                                                             ADDL
    62
                                                                             MOVAB
                                                                                             #<<PSL$C_SUPERAPSL$S_CURMOD>+PSL$C_SUPER>,-
#PSL$V_PRVMOD,-
#PSL$S_CURMOD+2,4(R2) ; set current and pr
S^#SS$_NORMAL_R0 ; set correct return
                                                                             INSV
    04 A2
50
                                                                                                                                              ; set current and previous mode to super
                              00
                                                                             MOVL
                                                                                                                                              ; set correct return code
                                                                             RET
                                                                                                                                              ; enter super mode
                                                            205:
                    7E
6E
                              D4
FA
                                                                             CLRL
                                                                                                                                              ; set up dummy PSL
; create initial call frame
    61 AF
                                                                             CALLG
                                                                                             (SP) ,B*30$
                                                            30$:
                          0000
                                                                              WORD
                                                                                             AHKO
                                                                                                                                                 entry mask
                    00
                              DD
FB
                                                                             PUSHL
                                                                                             #0
                                                                                                                                                 push a dummy parameter
                                                                             CALLS #1.W^REG_SAVE : save the registers
$DCLCMH S &HANDLER PC.W^PRVHND1,#0 ; set real handler
FAIL_CHECKNP SS$_NORMAL : check for success
1385 'CF
                                                  1432
                                                                                           PUSHL #SS$ NORMAL

CALLS #1, W*REG CHECKNP

#<<PSL$C USERAPS[$V CURMOD>-
!<PSL$C USERAPSL$V PRVMOD>>; set return to user

RETURN PC ; set the return PC
                   01
                                      117A
1A76°CF 01
03C00000 8F
                              FB
                                      1170
                                      1181
1187
1187
118A
                                                  1434
                              DD
                                                                             PUSHL
                                                  1436
                                                                                                                                             set the return PC return to user mode
              AS AF
                                                                             PUSHL
                                                                             REI
```

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
SUPER_MODE 5-SEP-1984 04:29:37
                                                                                                   VAX/VMS Macro V04-00
LUETPSY.SRCJSATSSS01.MAR:1
                                                                                                                                            40
                                    1439
1440
1441
                                          .SBTTL SUPER_MODE
                                            FUNCTIONAL DESCRIPTION:
                                                    Routine to handle the CHMS instructions.
                                            CALLING SEQUENCE:
                                                    CHMS #N
                                            INPUT PARAMETERS:
                                                      SP=>
                                                             CHMS parameter
                                                             PC
                                                              PSL
                                                      The CHMS parameter can be one of the following:
                                                              1 = execute $ASSIGN and $DASSGN service tests
                                                             2 = execute a $DCLCMH S to reset the CHMS handler to DCL
3 = execute $ALLOC and $DALLOC service tests
                             118B
                                    1458
                             118B
                                            OUTPUT PARAMETERS:
                             118B
                                                    NONE
                             118B
                                    1460
                             1188
                                    1461
                                          SUPER_MODE:
                              188
                                    1462
           50
                       DO
8F
                             118B
                                    1463
                                                              (SP)+,R0
                                                                                                      get CHM parameter off the stack
                                                    MOVL
                                                                                                    ; get CHM parameter of the thing
      03
                                                    CASEB
                                                             RO,#1,#3
                                     464
                                     465
                                          105:
                     0006°
0010°
0031°
                                    1466
                                                    . WORD
                                                             20$-10$
                                                    . WORD
                             1194
                                                              A30-108
                             1196
                                                             A40-108
                                     468
                                                    . WORD
                                     469 205:
                                    1470
                  02
                       DD
                                                    PUSHL
                                                             #PSL&C SUPER
                                                                                                    ; push the mode
                                                             W1.WASSDAS_CHK
                        FB
31
                             119A
                                    1471
      1BEF 'CF
                                                    CALLS
                                                                                                      do the tests
                                    1472
               0028
                                                    BRW
                             119F
                                                                                                    ; get back to user mode
                                          A30:
                                                             W^DCLCMH, W^SERV_NAME
                                    1474
0307°CF
           0077°CF
                        DE
                             11A2
                                                    MOVAL
                                                                                                    ; set service name pointer
                                                    SDCLCMH_S aPRVHND1, . #O
                                    1475
                                                                                                    ; reset the CHMS handler for DCL
                             11A9
                                                   FAIL_CHECK SSS NORMAL
                                    1476
                             11BA
                                                                                                    : check for success
                                                             PUSHL
CALLS
A50
                        DD
                             11BA
                                                                      #SS$ NORMAL
                       FB
11
                  01
                                                                       #1, WREG CHECK
      138F 'CF
                             11BC
                                    1477
                                                    BRB
                             1101
                                                                                                    ; get back to user mode
                                    1478 A40:
1479
                             11C3
                                                             #PSL$C_SUPER
#1,W^ACLDAL_CHK
                             1103
                  02
                        DD
                                                    PUSHL
                                                                                                    ; push the mode
      1B5C CF
                        FB
                                    1480
1481
1482
                             1105
                                                    CALLS
                                                                                                    : do the tests
                                          A50:
                             11CA
                        02
                             11CA
                                                    REI
                                                                                                    : return to user mode
```

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	- SATS SYSTEM SERVICE BUF_CHECK	TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	VAX/VMS Macro V04-00 LUETPSY.SRCJSATSSS01.MAR;1
02F3'CF. 53 59 02EF'CF 037A'CF 02F7'CF 61 02FB'CF 63	C3 1292 1541 3C 1298 1542 9A 129F 1543 9A 12A4 1544 12A9 1545 12A9 1546 12A9 1547 12A9 1548 12C2 1549 DF 12D9 1550 FB 12DD 1551	SUBL3 R9,R3,W^ARGLST1+8 MOVZUL W^PB+DIB\$W_UNIT+8,W^ARGLST1+4 MOVZBL (R1),W^ARGEST1+12 MOVZBL (R3),W^ARGLST1+16 SGETMSG_S MSGID=#UETP\$_DATAER,- MSGLEN=W^ML,- BUFADR=W^CTRSTR,- FLAGS =#1  \$FAOL S W^CTRSTR,W^ML,W^GETBUF,W^ARGLSTPUSHAE CALLS #1,W^PRINT_FAIL	get buffer offset get the unit number get the good data get the bad data
01CB'CF 13D1'CF 01	DF 12D9 1550 FB 12DD 1551 12E2 1552 10\$:	SFAOL S W^CTRSTR, W^ML, W^GETBUF, W^ARGLST PUSHAE W^ML CALLS #1, W^PRINT_FAIL	in the desc. address print the failure
0069°CF 04 AC 0069°CF 000	D1 12E2 1553 13 12E8 1554 DD 12EA 1555 11 12EE 1556	CMPL 4(AP), W^STAT BEQL 20\$ PUSHL W^STAT BRB 30\$	check status #1 br if OK else save it and continue in common
0071°CF 04 AC 10 0071°CF	12F0 1557 20\$: D1 12F0 1558 13 12F6 1559 DD 12F8 1560 12FC 1561 30\$:	CMPL 4(AP), W^STAT1 BEQL 40\$ PUSHL W^STAT1	check IO status #2 br if OK else save it
04 AC 0182'CF 13D1'CF 03	D1 12F0 1558 13 12F6 1559 DD 12F8 1560 12FC 1561 30\$: DD 12FC 1562 DF 12FF 1563 FB 1303 1564 1308 1565 40\$:	PUSHL 4(AP) PUSHAL W^10EXP CALLS #3,W^PRINT_FAIL	<pre>; save expected ; push string variable ; print the failure</pre>
	04 1308 1566	RET	; return

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 5-SEP-1984 04:29:37 LUETPSY.SRCJSATSSS01.MAR;1
                                                .SBTTL IONC
                                        FUNCTIONAL DESCRIPTION:
                                                AST routine to service IO AST's for the CANCEL service
                                        CALLING SEQUENCE:
                                                Entered via an AST
                                        INPUT PARAMETERS:
STAT = CANCEL status return
                                        DUTPUT PARAMETERS:
                                                NONE
                                      IONC:
                03FC
                                                          ^M<R2,R3,R4,R5,R6,R7,R8,R9> #0,B^CAN_CHECK
  1B'AF
            00
                                                                                                   ; check the cancel ; tell the test to wake up!
                                                CALLS
                                                SWAKE_S
                                                RET
                                                                                                   : return
                               1589
1590
1591
1593
1593
1594
1595
1598
1599
1601
1602
1604
1606
1607
                                                .SBTTL CAN_CHECK
                                        FUNCTIONAL DESCRIPTION:
                                                Routine to check the results of a CANCELLED IC.
                                        CALLING SEQUENCE:
                                                CALLS #0, W^CAN_CHECK : check results
                                        INPUT PARAMETERS:
                                                NONE
                                        OUTPUT PARAMETERS:
                                                NONE
                                      CAN_CHECK:
                                                WORD M<R2,R3,R4,R5,R6,R7,R8,R9>
                                                                                                   check 10 status blk; br if OK
                                                CMPW
                                1608
1609
1610
1611
1612
1613
1614
1615
                                                          105
                                                BEQL
                  DD DF FB
      0071 CF
                                                          WASTAT1
                                                                                                   ; push received
                                                PUSHL
                                                          #SS$ ABORT
                                                                                                   ; push expected
                                                PUSHL
      0174 °CF
                                                                                                   push string variable print the failure
                                                PUSHAL
13D1'CF
                                                          #3,WAPRINT_FAIL
                                                CALLS
                                      105:
      0069'CF
                                                          W^STAT
                                                CLRL
                                                                                                   : setup for next CANCEL
```

: return

RET

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 COUNT_CHAN 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
                                                               .SBTTL COUNT_CHAN
                                                      FUNCTIONAL DESCRIPTION:
                                             Routine to count the number of assigned channels.
                                                       CALLING SEQUENCE:
                                                               CALLS #0,W^COUNT_CHAN ; count the number of assigned channels
                                                       INPUT PARAMETERS:
                                                               NONE
                                                      OUTPUT PARAMETERS:
                                                               TOTAL_CHAN = count of all assigned channels
                                                    TOTAL_CHAN:
                        00000000
                                                                LONG
                                                                                                                    : assigned channel count
                                                    COUNT_CHAN:
                             001C
C1
CE
3C
04
                                                                         ^M<R2,R3,R4>
CTL$GL_CCBBASE,#CCB$B_AMOD,R2
#CCB$C_LENGTH,R3
a#CTL$GW_NMIOCH,R4
W^TOTAL_CHAN
                                                               ADDL3
52
             00000000'EF
                                                                                                                      get base and offset to test assign
                                                                                                                    ; set starting channel index
; get number of I/O channels
; init the # of channels
                                                               MNEGL
             00000000 9F
                                                               MOVZWL
                  FFE4 CF
                                                               CLRL
                                                    105:
                                95
13
06
                                                               TSTB
                                                                         (R2)[R3]
20$
                      6243
                                                                                                                    : is channel assigned?
: br if not assigned
                                                               BEQL
                  FFDB CF
                                                               INCL
                                                                         W^TOTAL_CHAN
                                                                                                                    ; else bump chan count
                                                   20$:
                  53 10
F1 54
                                                               SUBL2 #CCB$C_LENGTH,R3
SOBGTR R4,10$
                                     ; calc next channel index
                                                                                                                    : any more CCB's?
                                                               RET
                                                                                                                    : return
                                                               .SBTTL STORE_STEP
                                                      FUNCTIONAL DESCRIPTION:
                                                              Routine to store step information in the error log buffer.
                                                      CALLS #0, W^STORE_STEP
                                                       INPUT PARAMETERS:
                                                              ELBP = current errlog buffer pointer
                                             1660
1661
1663
1664
1665
1666
1667
1668
1670
1671
1672
1673
                                                      OUTPUT PARAMETERS:
                                                              FLAG = error logged flag
                                                    STORE_STEP:
                             0004
88
00
00
00
00
00
                                                                        ^M<R2>
#1, W^FLAG
W^ELBP, R2
W^SERV NAME, (R2)+
W^CURRENT TC, (R2)+
W^MODE, (R2)+
R2, W^ELBP
                                                               . WORD
                                                                                                                    ; set the error logged flag
; get errlog buf pntr
                                                               BISB2
                                                               MOVL
                                                               MOVL
                                                                                                                      save the service name
                                                                                                                    ; save the step number
                                                               MOVL
                                                               MOVL
                                                                                                                      save the mode
                                                                                                                    reset the errlog buf pntr
                                                               MOVL
```

return

RET

TC

UE

UE

UE

10

Co Pa

Sy

Sy Cr

As

#4+10, "X14(FP), WTREG\_SAVE\_AREA

#REG\_SAVE\_AREA,P3,R6

#4,R6 #2x2,R6,-(SP) #3,R1 #3,R3

check all but RO br if O.K.

; calculate the register number

; backup to register boundrys

set number past RO-R1 and save

105:

CMPC3

SUBL 3

ADD83

BICLZ

BEQL

29 13 C6 81 CA

0008°CF

56 53

14 AD

80000008

7E

SI

RET

\*\*

004C CF

1A9E

MOVAL INSV

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
REG_CHECKNP 5-SEP-1984 04:29:37
                                                                                                                  VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                         .SBTTL REG_CHECKNP
                                      FUNCTIONAL DESCRIPTION:
                                                         Subroutine to test RO & R2-R11 for proper content after a service execution without printing it. A snapshot is taken by the REG_SAVE routine a beginning of each step and this routine is executed after the
                                                         services have been executed. This routine collects the error information in buffer ERLB instead of printing it.
                                                CALLING SEQUENCE:
                                                                    #SS$ XXXXXX : push expected RO contents #1,WREG_CHECK : execute this routine
                                                         PUSHL
                                                INPUT PARAMETERS:
                                                         expected RO contents on the stack
                                                OUTPUT PARAMETERS:
                                                         possible error messages logged in buffer ERLB which are printed
                                                         using routine ERLBUF_DUMP.
                                                         Error packets are in the following form:
                                                                       ------
                                                                      Service name pntr
                                                                             Step #
                                                                      Mode name pointer
                                                                                                  long word count
                                                                      \/\/\/\/\/\/\! 3-4 parameter long words
                                             FLAG:
                                                                                             ; error flags are BITO = 0 means no errors in the bu BITO = 1 means errors in the buffe
                       00
                                                         .BYTE O
                                             ELBP:
              0000149A'
                                                         . ADDRESS ERLB
                                                                                            ; error log buffer pointer
                                             ERLB:
              00001A76
                                                         .BLKB
                                                                     1500
                                                                                            ; error log buffer
                                             REG_CHECKNP:
                                                                     ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
4(AP),R0 ; is this the right fail code
10$ ; br if yes
                    OFFC
                                                          . WORD
                                                         CMPL
                                                         BEQL
                                                                 #0.W^STORE_STEP
ELBP.R2
#3.(R2)+
 FBE1 CF
                                                         CALLS
                       FB09000E400E
                             1A7
                                                                                               store step information
       FAOF
                             1A83
1A88
1A8B
1A8E
1A92
1A97
                                                         MOVL
                                                                                               get the current error log pointer
                                                                                               save the long word count save received status
                                                         MOVE
                                                                    RO (R2)+
4(AP),(R2)+
WEXP,(R2)+
(R2)
                                                         MOVL
82 82
        0174
                                                                                               save expected status save the string variable
                                                         MOVL
                                                         MOVAL
                                      1839
1840
1841
1842
                                                         CLRL
                                                                                               set the terminator
                                                                    R2,ELBP : reset the buffer pointer W^TEST_MOD_FAIL.W^TMD_ADDR : set failure message address #ERROR,#0,#3,W^MOD_MSG_CODE : set severity code
        CF
002A
 F 9 F 8
                                                         MOVL
```

; bail out

RET

04

1AF1

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 Page 49 ERLBUF_DUMP 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1 (5)
```

```
1863
1864
1865
1866
1867
1868
1869
1870
                                                                 .SBTTL ERLBUF_DUMP
                                     1AF 2
                                                       FUNCTIONAL DESCRIPTION:
                                     1AF
                                                                 Routine to check for errors in the error log buffer and
                                    1AF
1AF
1AF
1AF
1AF
1AF
                                                                 report any that are there.
                                                        CALLING SEQUENCE:
                                                                 CALLS #0, W^ERLBUF_DUMP
                                                                PARAMETERS:
                                                        INPUT
                                                                 FLAG bit 0 = 0 for no errors logged
FLAG bit 0 = 1 for errors logged
if errors logged then buffer ERLB must contain legal format errors
                                    IAF
IAF
IAF
                                                        OUTPUT PARAMETERS:
                                                                 NONE
                                     1AF
                                             1880
                                    1AF
                                             1881
                                             1882
1883
1884
1885
                                     1AF
                                                     ERLBUF_DUMP:
                                                                             ^M<R2,R3,R4>
FLAG,308
ERLB,R2
      2A F 99D CF
                           001C
                                    1AF2
                                                                  - WORD
                              E9
DE
                                     1AF4
                                                                 BLBC
                                                                                                     ; br if no errors to reg; set up buffer pointer
                                                                                                        br if no errors to report
                                    1AF9
                                                                 MOVAL
                                             1886 10$:
                                     1 AFE
                                             1887
1888
                                     1AFE
                                                                                                        any more errors? br if not
                              D5
13
D0
D0
D0
9A
                                                                 TSTL
                                    1800
                                                                             30$
                      BEQL
                                                                             (R2)+, W^SERV NAME; reset service
(R2)+, W^CURRENT_TC; reset step #
(R2)+, W^MODE; reset the mode
                                             1889
1890
                                    1802
1807
       0307°CF
                                                                 MOVL
                                                                                                        ; reset service name
       0004 'CF
                                                                 MOVL
                                             1891
1892
1893
       0159 CF
                                    1B0C
                                                                 MOVL
               53
54
                                    1811
1814
                                                                             (R2)+,R3
                                                                 MOVZBL
                                                                                                        get the longword count and save it
                              DO
                                                                             R3, R4
                                                                 MOVL
                                     1817
                                             1894
                                                     20$:
                                    1817
1819
1810
1821
1823
1823
1824
182E
                                             1895
                                                                                                        push a parameter
and push them all
print the failure
                                                                 PUSHL
                                                                             (R2)+
                                             1896
1897
                                                                             R3,20$
                  FB
                                                                 SOBGTR
                                                                             R4 WAPRINT FAIL
       F8BO CF
                                                                 CALLS
                                             1898
                                                                 BRB
                                                                                                        do the next one
                                             1899 30$:
1900
               F973 CF
F96C CF
F96C CF
                                                                 MOVAL
                                                                             W^ERLB, W^ELBP
                                                                                                        reset the buffer pointer
                                                                             W^ERLB
                                             1901
                                                                 CLRL
                                                                                                        set fresh terminater
                                             1902
                                                                 RET
                                                                                                      : bail out
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                                            .SBTTL MODE_ID
                                                                                  FUNCTIONAL DESCRIPTION:
                                                                                            Subroutine to identify the mode that an exit handler is in.
                                                                                  CALLING SEQUENCE:
CALLS #0, W^MODE_ID
                                                                                  INPUT PARAMETERS: MODE contains an address pointing to an ascii string desc.
                                                                                            of the current CPU mode.
                                                                                  OUTPUT PARAMETERS:
                                                                                            NONE
                                                                               MODE_ID:
                                                                                            .WORD ^M<R2.R3,R4,R5>
$FAO S W^CS5.W^MESSAGEL,W^MSGL,MODE; format the error message
$PUTMSG_S W^MSGVEC ; wrint the mode message
                                                   003C
                                                                                            .SBTTL ALLDAL_CHK
                                                                                  FUNCTIONAL DESCRIPTION:
                                                                                            Subroutine to do the $ALLOC and $DALLOC tests
                                                                                  CALLING SEQUENCE:
                                                                                            PUSHL #ACCESS MODE CALLS #1, W ALEDAL CHK
                                                                                  INPUT PARAMETERS:
                                                                                            4(AP) = the access mode for the test
                                                                                  OUTPUT PARAMETERS:
                                                                       1941
1942
1943
                                                                                            NONE
                                                                       1944
                                                                               ALLDAL_CHK:
                                                                      1946
1947
1948
1949
1950
1951
1952
                                                   003C
                                                                                            . WORD
                                                                                                         ^M<R2,R3,R4,R5>
                                                      DD
fB
                                                                                          PUSHL #0

CALLS #1, W^REG SAVE ; save a register snapshot

SALLOC_S DEVNAM=U^MBNAM, -

PHYLEN=W^ML -

PHYBUF=W^GETBUF, -

ACMODE=4(AP) ; try S mode

FAIL_CHECKNP SSS NORMAL ; check for success

PUSHL #SSS NORMAL

CALLS #1, W*REG_CHECKNP

MOVL 4(AP), W^ALLO+ALLOCS_ACMODE ; set the new access mode

SALLOC_G_M^ALLO
                                                                                            PUSHL
                                                                                                                                                   push a dummy parameter
                             F820 CF
                                                             1860
1865
                                                             1870
1875
1884
1884
1893
1893
1899
                                                                      1954
1955
1956
```

SALLOC G WALLO SALLOCS ACHOR

FAIL\_CRECKNP SSS DEVALRALLOC

PUSHL #SSS DEVALRALLOC

CALLS #1 WREG CHECKNP

MOVAL WALLOC, WASERV RAME

00000641 8F EDB CF 01

FED8 CF 01 CF 004C'CF

DD FB DE

1957

try G mode check for proper failure

; set new service name

21 6E 70 2E

40

VO

53

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 ALLDAL CHK 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
                                                                                                                                                                                                      Page
                                                                             SDALLOC_S DEVNAM=WAMBNAM,-
                                                      1958
1959
1960
                                                                            ACMODE=4(AP) try S mode

FAIL_CHECKNP SS$ NORMAL check for success

PUSHL #SS$ NORMAL

CALS #1, W*REG CHECKNP

MOVAL W^A'LOC, W^SERV NAME set new service name

$ALLOC G W^ALLO

FAIL_CRECKNP SS$ NORMAL check for success

PUSHL #SS$ NORMAL

CALS #1, W*REG CHECKNP

MOVAL W^DALLOC, W^SERV NAME set new service name

MOVL 4(AP), W^DALL+DACLOC$ ACMODE; set new access mode

$DALLOC G W^DALL

FAIL_CHECKNP SS$ NORMAL

CALS #1, W*REG_CHECKNP

RET : return
                                                                                                                                       : try S mode
: check for success
                                            18A5
                                                                                                ACMODE=4(AP)
                                            188
                                    DD
FB
DE
                                            1883
0307'CF 0038'CF
                                            1885
                                                      1961
1962
1963
                                            IBBA
                                            1861
                                            1BCA
                                    DD
FB
DE
DO
                                            1BCA
                                            1BCC
                                                      1964
1965
1966
1967
                  004C 'CF
                                            1801
1808
    OOBD'CF
                      04 AC
                                            1BDE
                                            1BE
                                            1BE7
                                    F8
04
                           01
         FE88 CF
                                            1BE9
                                                      1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
                                            1BEE
                                                                              RET
                                                                                                                                       : return
                                            1BEF
                                            1BEF
                                                                              .SBTTL ASSDAS_CHK
                                            18EF
                                            1BEF
                                                                  FUNCTIONAL DESCRIPTION:
                                            1BEF
                                                                             Subroutine to do the $ASSIGN and $DASSGN tests
                                            1BEF
                                                                  CALLING SEQUENCE:
                                            1BEF
                                                                             PUSHL MACCESS MODE
                                            1BEF
                                            1BEF
                                                                              CALLS
                                                                                         #1,WASSDAS_CHK
                                            1BEF
                                                      1979
                                            1BEF
                                                                  INPUT PARAMETERS:
                                                      1980
1981
                                                                             4(AP) = the access mode for the test
                                            1BEF
                                            1BEF
                                                                              CHAN SAVE = correct number of channels
                                            1BEF
                                                      1982
                                            1BEF
                                                      1983
                                                                  OUTPUT PARAMETERS:
                                                      1984
1985
                                            1BEF
                                                                             NONE
                                            1BEF
                                                      1986
                                            1BEF
                                           1BEF
                                                      1987
                                            1BEF
                                                               ASSDAS_CHK:
                                003C
                                                      1989
                                                                                           ^M<R2,R3,R4,R5>
                                           1BEF
                                                                              WORD
                                                      1990
                                    DD
                                            18F
                                                                              PUSHL
                                                                                                                                       ; push a dummy parameter
                                                                             CALLS #1, WAREG SAVE
SCREMBX S CHAN=WAMBCHAN,-
                                                       1991
        F78D CF
                                            1BF 3
                                                                                                                                       ; save a register snapshot
                                                      1992
                                            1BF
                                                                                                LOGNAM=W^MBNAM, -
                                            18F
                                                      1994
                                                                                               PRMFLG=#0, -
ACMODE=#PSL$C_USER
                                            1BF
                                                       1995
                                            1BF
                                                                                                                                       ; create temp mailbox
                                                                             $ASSIGN_S DEVNAM=W^MBNAM, -
CHAN =W^CHAN1, -
                                                       1996
                                                      1997
                                                      1998
                                                                                                ACMODE=4(AP)
                                                                                                                                       ; try S mode
; check success
                                                                            FAIL_CHECKNP SS$ NORMAL ; check success
PUSHL #SS$ NORMAL
CALLS #1 W*REG CHECKNP

MOVL 4(AP), W*ASGN+ASSIGN$_ACMODE ; set the new mode
$ASSIGN_G W*ASGN
$ASSIGN_G W*ASGN
$ASSIGN_G W*ASGN
                                    FB
DO
   FE4C CF
0085'CF
                     04 AC
                                                      2000
2001
2002
                                                                             FAIL_CHECKNP SSS_NORMAL
PUSHL #SSS_NORMAL
CALLS #1, W*REG_CHECKNP
MOVAL W*DASSGN, W*SERV_NAME
SDASSGN_S CHAN=W*CHAN1
                                                                                                                                          check success
                                    DD
FB
DE
        FE36 CF 01
                                                       2003
2004
                                                                                                                                       ; set service name
                                                                                                                                       : release channel
```

SATSSS01 V04-000

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SA

VO

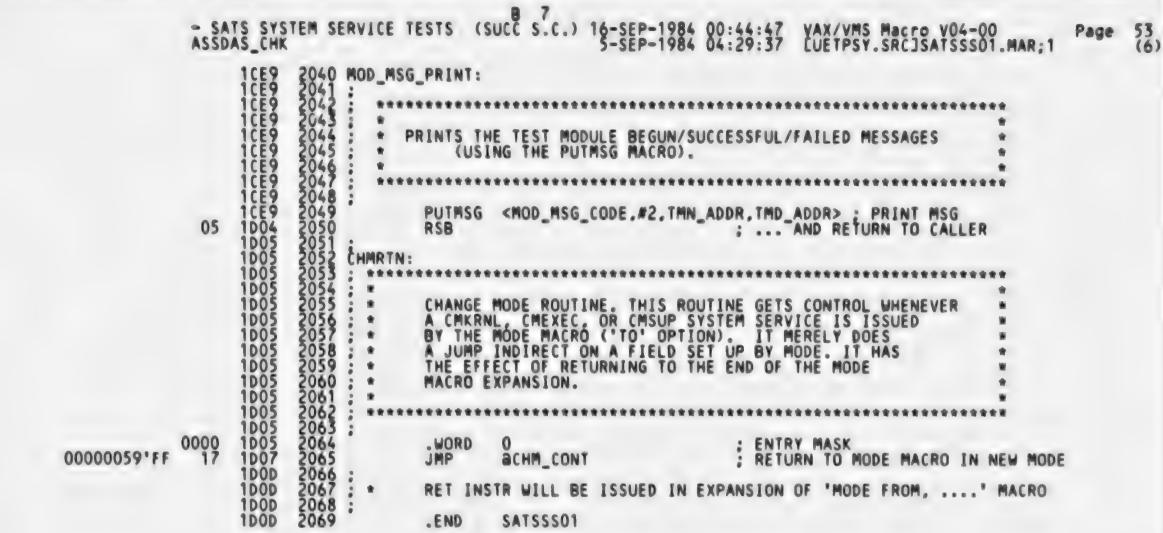
73

20

۷t

55

VO



74

VO

SAT VO4

SATSSSO1 Symbol table	- SATS SYSTEM	SERVICE	TESTS (SUCC S.C.)	16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	YAX/VMS LUETPSY	Macro V04-00 SRC]SATSSS01.MAR;1	Page	55
FIBSW_FID FIBSW_FID_RVN FIBSW_NMCTL FIBDES FIBSIZE	= 00000004 = 00000008 = 00000014 0000045E R	03	MFD_FILE_ID ML MODE MODE ID	= 000 000 000 000	40004 001CB R 00159 R 00159 R 001629 R 00173 R 002DC R 002DC R 00326 R 00913 R 00967 R 00967 R 00366 R 00000 R	03 03 04		
ILENAME ILNOTMOD LAG ETBUF ETC	= 00000029 0000049B R 000001CB R 00000103 R 000000059 R = 00000005 = 00000005 = 00000005 = 00000006	03 04 03 03	MOD MSG CODE MOD MSG PRINT MSGC MSGVEC MSGVEC1	000 000 000 000	01CE9 R 00173 R 002DC R 00326 R	03 04 03 04 03 04 04 04 04 04		
ETCHN ETCHNS CHAN ETCHNS NARGS ETCHNS PRIBUF ETCHNS PRILEN ETCHNS SCOBUF	00000059 R = 00000004 = 00000005 = 00000000	ŏž	NEXT NEXT1 NEXT2 OUTPUT PB	000 000 000 000	00964 R 00086 R 00067 R 00366 R	04 04 02 03		
EICHM9_2CDFEM	= 00000008 = 00000014 = 00000010		PHD\$Q_PRIVMSK PL PR\$_USP	= 000 000 = 000	00000 0035E R 00003	03		
ETD ETDEV ETDEVS_DEVNAM	= 00000010 00000009 R 00000060 R = 00000005	03	PRINT FAIL PRIVMASK PRIV ARGS	000 000 = 000	013D1 R 00051 R 00002	04		
ETDEVS_DEVNAM ETDEVS_NARGS ETDEVS_PRIBUF ETDEVS_PRILEN ETDEVS_SCOBUF ETDEVS_SCOLEN ANDLER_PC	= 00000005 = 000000006 = 00000008 = 00000014		PRVSV SYSPRV PRVHND1 PRVPRT PSLSC EXEC	000	0030B R	03		
N O	= 00000010 00001133 R = 00000003 00000053 R	04	PSLSC KERNEL PSLSC SUPER PSLSC USER	= 000 = 000 = 000 = 000 = 000	00000 00002 00003			
NPUT OSM_ACCESS OSM_CREATE OSM_DELETE_	= 00000040 = 00000080	02	PSLSC_EXEC PSLSC_KERNEL PSLSC_SUPER PSLSC_USER PSLSS_CURMOD PSLSV_CURMOD PSLSV_PRVMOD QIO	= 000	00016	0.2		
OSM_READATIN OSM_WRIATIN OS_ACCESS	= 00000100 = 00000080 = 00000100 = 00000032		QIOS_ASTADR QIOS_ASTPRM QIOS_CHAN	= 000 = 000 = 000	00018 00008	02		
OS_CREATE OS_DEACCESS OS_DELETE	= 00000032 = 00000033 = 00000034 = 00000035		QIOS EFN QIOS FUNC QIOS IOSB QIOS NARGS	= 000 = 000 = 000	00004 0000C 00010			
OS_MODIFY OS_READLBLK OS_READPBLK OS_READVBLK	= 00000036 = 00000021 = 00000000		0105 P1	= 000 = 000 = 000	0000C 0001C 00020 00024 00028			
OS_SETMODE OS_WRITELBLK OS_WRITEOF	= 00000031 = 00000023 = 00000020 = 00000028 = 00000008		QIOS P3 QIOS P4 QIOS P5 QIOS P6 QIOP	= 000	00020			
DS_WRITEPBLK DS_WRITEVBLK DCC	= 00000050	02	QIOW	000 000 = 000	000F1 R 00072 R 00014	03		
DEXP DNC H IB\$SIGNAL	00000188 R 00000182 R 00001309 R 00000228 R	02 04 02 04 02 03 03	QIOWS ASTADR QIOWS ASTPRM QIOWS CHAN QIOWS EFN QIOWS FUNC	= 000 = 000 = 000	00018 00008 00004 0000C			
BA BCHAN BNAM	00000236 R 0000031E R 0000030F R	03 03	QIOWS IOSB QIOWS NARGS	= 000	00010 0000C 0001C 00020			
BCHARSIZE BDEV CHAR ESSAGEL	00000236 R 0000031E R 0000030F R = 00000028 00000336 R 000002FF R	03	QIOWS P1 QIOWS P2 QIOWS P3 QIOWS P4	= 000 = 000 = 000	0002 <b>0</b> 0002 <b>4</b> 0002 <b>8</b>			

Symbol table			ESTS (SUCC S.C.) 16-SEP-198		;1 Page	(6)
QIOWS PS QIOWS PS QIOWS PS QIOWS PS REG REG REGUM REG_CHECKNP REG_CHECKNP REG_SAVE_AREA RENAST RETURN PC SATSSOT SERV NAME SETUP SUPER SEVERE	= 0000002C = 00000015D R 0000015D R 0000015D R 00000138F R 00000138F R 0000005D R 0000005D R 00000307 R 00000307 R 00000307 R 00000307 R = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 000000001 = 00000001 = 000000000000 = 00000000000000 = 0000000000	335544450000000000000000000000000000000	STP30 STP31 STP32 STP33 STP35 STP35 STP35 STP35 STP36 STP37 STP39 STP40 STP41 STP42 STP40 STP41 STP42 STP5 STP8 STP8 STP8 STP8 STP8 STP8 STP8 STP8	00000108 R 04 00000A3C R 04 00000A86 R 04 00000C1A R 04 00000C1A R 04 00000E87 R 04 00000E87 R 04 0000014E R 04 0000183 R 04 0000183 R 04 00000185 R 04 00000187 R 04 00000188 R 04 0000018 R 04 00000018 R 04 0000000000000000000000000000000000		

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
                                                                                                                                                                  VAX/VMS Macro V04-00
LUETPSY.SRCJSATSSS01.MAR;1
 SATSSS01
                                                                                                                                                                                                                            57
                                                                                                                                                                                                                  Page
 Symbol table
                                                                                                                                                                                                                             (6)
                                                        00000009 R
0000001F R
0000004C R
0000004B R
000004D2 R
000004E4 R
00001338 R
000000000 R
00748010
00748019
TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
TMN_ADDR
TOPSYS
TOPSYS_DIR
TOTAL_CHAN
TPID
                                                                                   000000000
TPID
UETPS DATAER
UETPS SATSMS
UETPS TEXT
                                                      =
                                                     = 00741133
000001FE R
= 00000000
UM
                                                                                   02
 WARNING
                                                                                      Psect synopsis
 PSECT name
                                                       Allocation
                                                                                          PSECT No.
                                                                                                            Attributes
 -------
                                                                                                                                                                                              NOWRT NOVEC BYTE WRT NOVEC BYTE NOWRT NOVEC LONG WRT NOVEC LONG
     ABS .
                                                        00000000
                                                                                                             NOPIC
                                                                                                                                                         LCL NOSHR NOEXE NORD
                                                       00000000
000002EC
000004FB
                                                                                                            NOPIC
NOPIC
NOPIC
NOPIC
                                                                                          01
02
03
 SABS$
                                                                                                    1.)
                                                                                                                          USR
                                                                                                                                     CON
                                                                                                                                               ABS
                                                                                                                                                         LCL
                                                                                                                                                               NOSHR
                                                                                                                                                                                       RD
                                                                                                                          USR
                                                                                                                                     CON
                                                                                                                                               REL
                                                                                                                                                         LCL
 RODATA
                                                                                                                                                               NOSHR
                                                                                                                                                                         NOEXE
                                                                                                                                                                                        RD
                                                                                                                                     CON
                                                                                                                                               REL
 RWDATA
                                                                                                                          USR
                                                                                                                                                         LCL NOSHR NOEXE
                                                                                                                                                                                       RD
                                                                                                                                                         LCL NOSHR
                                                        00001D0D
 SATSSS01
                                                                                                                          USR
                                                                                                                                     CON
                                                                                                                                                                             EXE
                                                                                                                                                                                       RD
                                                                                Performance indicators
```

00:01:19.09

Phase	Page faults	CPU Time	<b>Elapsed Time</b>
Initialization	33	00:00:00.09	00:00:00.48
Command processing	112	00:00:00.63	00:00:01.54
Pass 1	1286	00:00:34.12	00:01:00.91
Symbol table sort Pass 2	0	00:00:03.70	00:00:04.43
Pass 2	846	00:00:08.61	00:00:10.90
Symbol table output	18	00:00:00.28	00:00:00.78
Psect synopsis output	3	00:00:00.03	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00

2301

Assembler run totals

The working set limit was 1800 pages.
210140 bytes (411 pages) of virtual memory were used to buffer the intermediate code.
There were 120 pages of symbol table space allocated to hold 2297 non-local and 50 local symbols.
2069 source lines were read in Pass 1, producing 48 object records in Pass 2.
105 pages of virtual memory were used to define 100 macros.

00:00:47.47

S

SATSSSO1 - SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 Page 58 VAX-11 Macro Run Statistics S-SEP-1984 04:29:37 [UETPSY.SRC]SATSSSO1.MAR;1 (6)

! Macro library statistics !

Macro Library name

\_\$255\$DUA28:[SYSLIB]STARLET.MLB;2 \_\$255\$DUA28:[SHRLIB]UETP.MLB;1 \_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 \_\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries) Macros defined 82 13 2 0 97

2752 GETS were required to define 97 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS01/OBJ=OBJ\$:SATSSS01 MSRC\$:SATSSS01/UPDATE=(ENH\$:SATSSS01)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

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